

GH[™]130/200/230/300 Hydraulic Sprayers



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.

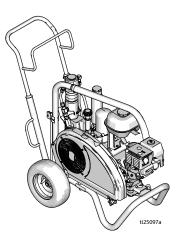


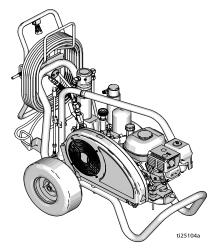
Important Safety Instructions

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

(F

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	\checkmark		
18A957	\checkmark		
24W924	\checkmark	\checkmark	
		GH200	
Model:	Standard	ProContractor	120V Motor Kit (Non CSA)
24W925	\checkmark		
18A958	\checkmark		
24W926	\checkmark		√
24W927		\checkmark	
24W928		√	√
		GH230	
Model:	Standard	ProContractor	120V Motor Kit (Non CSA)
24W929	\checkmark		
18A975	\checkmark		
24W930	\checkmark		√
24W932		√	
24W933		√	√
	GH300		
Model:	Standard	ProContractor	
24W935	\checkmark		
18A956	\checkmark		
24W936		√	
24W935V	\checkmark		
24W936V		√	

Electric Motor Kit Options

Kit Number	Sprayer Model	Description
288473	GH130	120VAC, 60Hz, 15A
248949	GH200/GH230/GH300*	120 VAC, 60Hz, 15A

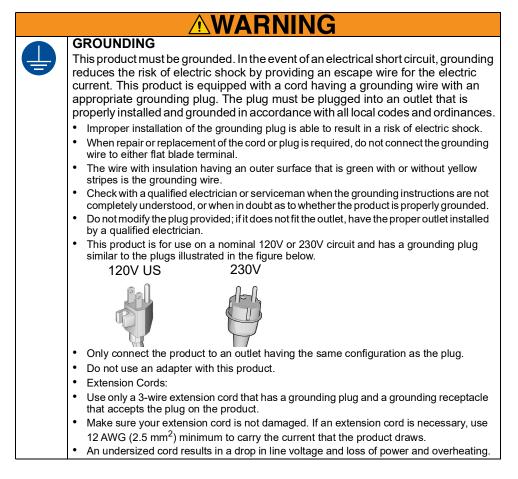
*Performance is limited when using electric motor vs internal combustion engine

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



FIRE AND EXPLOSION HAZARD

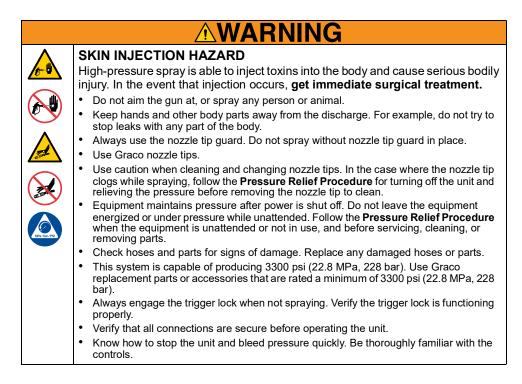
Flammable fumes, such as solvent and paint fumes, in **work area** can ignite or explode. To help prevent fire and explosion:

- 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 anti static or conductive.
- Connect to a grounded outlet and use grounded extensions cords. Do not use a 3-to-2 adapter.
- Do not use a paint or a solvent containing halogenated hydrocarbons.
- Do not spray 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 Safety Data Sheets (SDS) and container labels provided with the paints and solvents. Follow the paint and solvents manufacturer's safety instructions.
- Fire extinguisher equipment shall be present and working.

Internal Combustion Engine Warnings

Image: State of the second				
 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 fuel. 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 anti static 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: 	^			
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To avoid severe burns:	^	BURN HAZARD		
Do not touch hot fluid or equipment.				
		Do not touch hot fluid or equipment.		

Electric Motor/Internal Combustion Engine Warnings





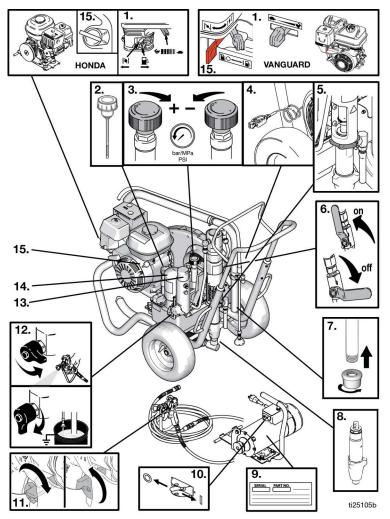
	EQUIPMENT MISUSE HAZARD
	Misuse can cause death or serious injury.
	 Always wear appropriate gloves, eye protection, and a respirator or mask when painting. Do not operate or spray near children. Keep children away from equipment at all times. Do not overreach or stand on an unstable support. Keep effective 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 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.
	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.
\land	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.
MPa/bar/PS	• Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, follow the Pressure Relief Procedure and disconnect all power sources.



	ENTANGLEMENT HAZARD
	Rotating parts can cause serious injury.
	Keep clear of moving parts.
	 Do not operate equipment with protective guards or covers removed.
MPa/bar/PSI	 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.
Δ	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 SDSs 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.
Δ	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 eye wear, 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)

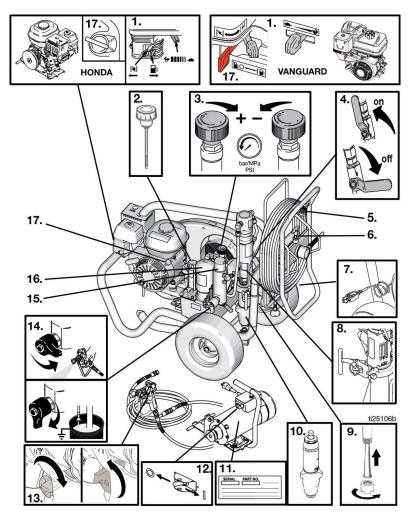


1	Engine Controls
2	Hydraulic Oil Cap / Dipstick
3	Pressure Control
4	Grounding Clamp
5	Threaded Pump Connection
6	Hydraulic Pump Valve
7	Inlet Strainer

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

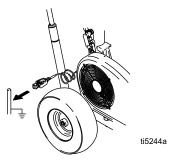
Grounding

Grounding

Grounding Procedure for Internal Combustion 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.



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 mm²) minimum.

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

Grounding

Grounding of Pails

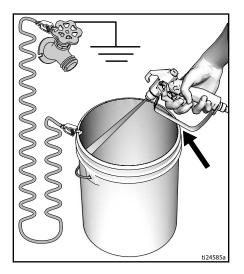
Solvent pails used when flushing: Follow local code. Use only conductive metal pails, placed on a grounded surface. Do not place the pail on a non-conductive surface, such as paper or cardboard, which interrupts grounding continuity.



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.



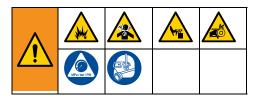
This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as skin injection, splashing fluid and moving parts, follow the **Pressure Relief Procedure** when you stop spraying and before cleaning, checking, or servicing the equipment.

- 1. Engage trigger lock.
- 2. Turn sprayer OFF:
 - Turn gas engine or electric motor ON/OFF switch to OFF.
 - Move Diesel throttle lever to STOP.
 OR
 - Unplug power cord to electric motor.
- 3. Move pump valve to OFF and turn pressure control knob fully counterclockwise to lowest setting.
- 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.
- Turn prime valve down to DRAIN position. Leave prime valve down until ready to spray again.
- 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.

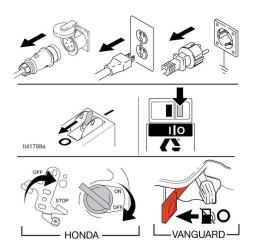
Setup

Setup

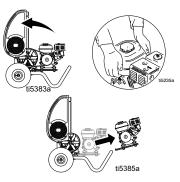
Change Engine or Motor



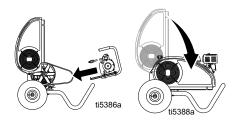
1 Turn motor OFF and unplug or turn engine to the OFF/STOP position. Loosen belt guard knob and motor clamp. Perform **Pressure Relief Procedure**, page 13.



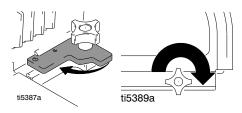
2 Lift belt guard. Remove belt. Tilt engine/motor and remove engine/motor.



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



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

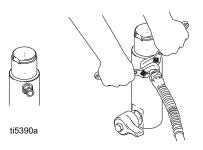


Setup

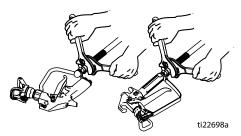
Complete Setup



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



2. Install hose to spray gun and tighten securely.

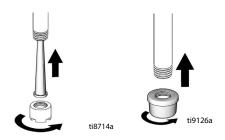


3. Engage gun trigger lock.

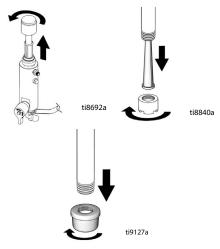


- 4. Remove Tip Guard.
- 5. **ProContractor Series:** Install inlet strainer into bottom of suction tube, place inlet nut over end and hand tighten securely.

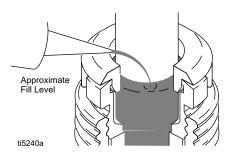
Standard Series: Screw inlet strainer to bottom of suction hose and hand tighten securely.



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



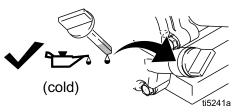
7. Fill throat packing nut with TSL to prevent premature packing wear. Do this each time you spray.



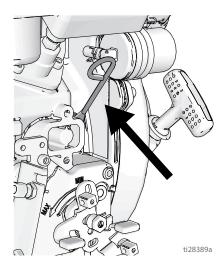
Setup

8. Check engine oil level.

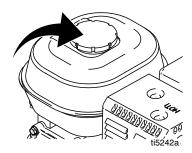
Gasoline Engine



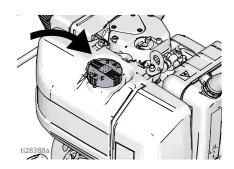
Diesel Engine



9. Fill fuel tank. Gasoline Engine



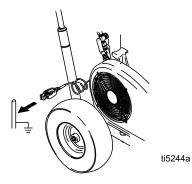
Diesel Engine



10. Check hydraulic oil level. See page 25 for hydraulic oil specifications. Add hydraulic oil as needed until the level is between the MIN and MAX (Safe Range when cold). Hydraulic tank capacity is five quarts (4.75 liters).



11. Attach sprayer grounding clamp to earth ground.

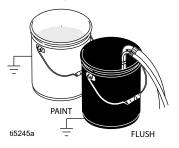




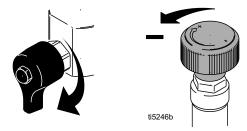
Startup



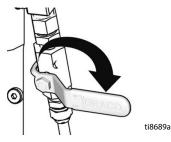
1. Place suction tube and drain tube in grounded metal pail partially filled with flushing fluid. Attach ground wire to pail and to earth ground.



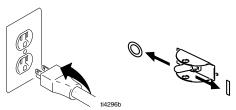
2. Turn prime valve down to DRAIN position. Turn pressure control counterclockwise to lowest pressure.



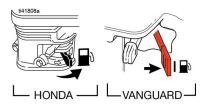
3. Set hydraulic pump valve OFF.



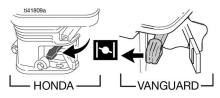
4. If using electric motor, plug cord into outlet and turn switch to ON.



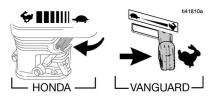
- 5. If using gasoline engine, start engine.
 - a. Move fuel valve to open.



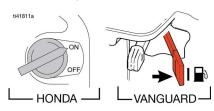
b. Move choke to closed.



c. Set throttle to fast.

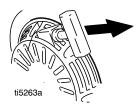


d. Set engine switch to ON.

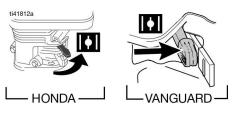




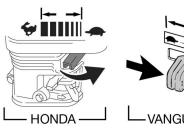
Pull starter rope. e.

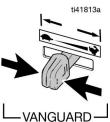


f. After engine starts, move choke to open.

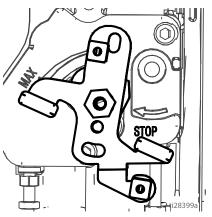


Set throttle to desired setting. g.





- If using Diesel engine, start engine. 6.
 - Move throttle lever to MIN position. a.



Grip the starter rope handle. Gently b. pull the rope until it is extended to the full length revealing the RED indicator mark on the rope.

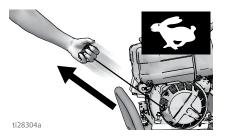


Without releasing the starter rope C. handle allow the rope to rewind completely.

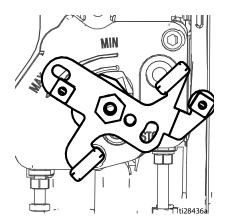




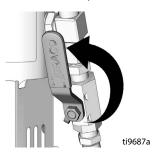
d. Start the engine by pulling the rope using a firm steady pull.



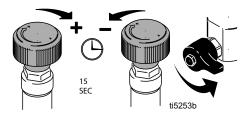
e. After engine starts move throttle lever to MAX (full throttle) position.



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



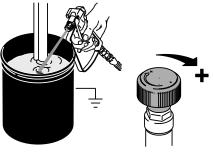
 Increase pressure enough to start hydraulic motor stroking and allow fluid to circulate for 15 seconds; turn pressure down, turn prime valve horizontal.



9. Disengage spray gun trigger lock.



 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.



FLUSH

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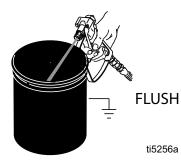
Startup



- 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.
- 12. Place siphon tube in paint pail.



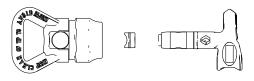
13. Trigger gun again into flushing fluid pail until paint appears.



Switch Tip[™] and Guard Assembly

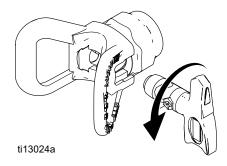


- 1. Perform **Pressure Relief Procedure**, page 13.
- 2. Engage gun trigger lock. Insert Switch Tip. Insert seat and OneSeal[™].

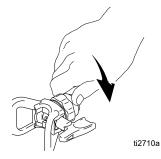


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3. Insert Switch Tip and face forward.



4. Screw assembly onto gun. Tighten.



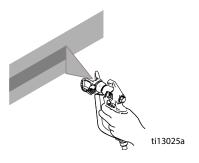


Spray

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



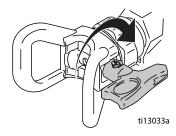
 Hold gun perpendicular, 10-12 in. (25-30 cm) from surface. Spray back and forth. Overlap by 50%. Trigger gun after moving and release before stopping.



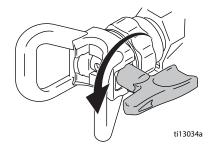
Clear Tip Clog



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



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



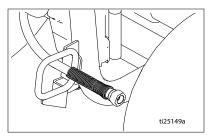
Startup

Hose Reel

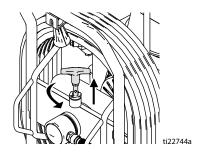
(ProContractor Series only)



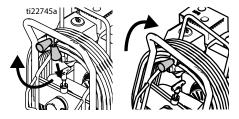
1. Make sure hose is routed through hose guide.



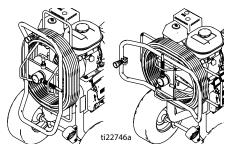
2. Lift and turn pivot lock 90° to unlock hose reel. Pull on hose to remove it from hose reel.



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

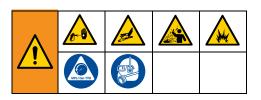


NOTE: The hose reel can be locked into two positions: Usage and Storage.

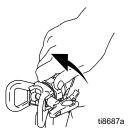




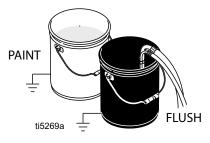
Clean Up



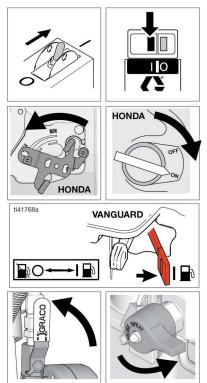
- 1. Perform **Pressure Relief Procedure**, page 13, steps 1-7.
- 2. Remove Guard and SwitchTip.



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



 Turn engine ON and start engine or plug motor in and turn ON. Move throttle to MAX on internal combustion engine. Turn hydraulic pump valve ON. Turn prime valve to SPRAY position.

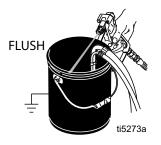


 Hold gun against pail. Disengage trigger lock. Turn pressure control up until motor begins to drive pump. Trigger gun until flushing fluid appears.



Clean Up

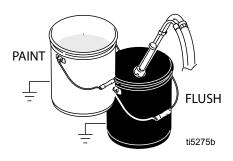
 Move gun to waste pail, hold gun against pail, trigger gun to thoroughly flush system. Release trigger and engage trigger lock.



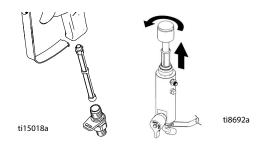
 While continuing to trigger gun, turn prime valve down. Then release gun trigger. Allow flushing fluid to circulate until fluid comes out of drain tube clear.



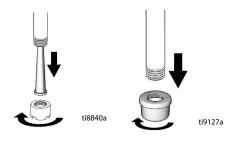
 Raise siphon tube above flushing fluid and run sprayer for 15 to 30 seconds to drain fluid. Turn hydraulic valve OFF. Turn engine OFF or turn electric motor OFF and unplug.



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



 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.

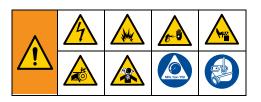


- If flushing with water, flush again with mineral spirits, or Pump Armor, to leave a protective coating to prevent freezing or corrosion.
- 12. Wipe sprayer, hose and gun with a rag soaked in water or mineral spirits.



Maintenance

Maintenance



NOTE: For detailed engine maintenance and specifications, refer to separate Honda or Kohler Engine 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 fuel 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.

GASOLINE ENGINE, AFTER THE FIRST 20 HOURS OF OPERATION: Drain engine oil and refill with clean oil. Reference Honda or Vanguard Engine Owner's Manual for correct oil grade.

DIESEL ENGINE, AFTER THE FIRST 50 HOURS OF OPERATION: Drain engine oil and refill with clean oil. Replace oil filter. Reference Kohler Engine 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/Kohler/Vanguard dealer.

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

AFTER EACH 100 HOURS OF

OPERATION: Change engine oil. Reference Honda or Vanguard Engine Owner's Manual for correct oil viscosity.

DIESEL ENGINE, AFTER EACH 250 HOURS OF OPERATION: Drain engine oil and refill with clean oil. Replace oil filter. Reference Kohler Engine Owner's Manual for correct oil grade.

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

YEARLY OR 2000 HOURS: Replace belt. Replace hydraulic oil with Mobil SHC 526 or other high quality ISO viscosity grade 68 hydraulic oil. Replace hydraulic oil filter 246173.

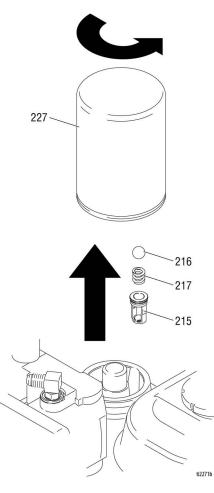
SPARK PLUG: Use only BPR6ES (NGK) or W20EPR-U (NIPPONDENSO) plug. Gap plug to 0.028 to 0.031 in. (0.7 to 0.8 mm). use spark plug wrench when installing and removing plug.

Maintenance

Hydraulic Oil/Filter Change

- 1. Place drip pan or rags under sprayer to catch hydraulic oil that drains out.
- 2. Remove drain plug (2). Allow hydraulic oil to drain.
- 3. Unscrew filter (227) slowly oil runs into groove and drains out rear.
- 4. Remove and replace ball (216), spring (217), and retainer (215).

- 5. Install drain plug (2) and oil filter (227). tighten oil filter additional 3/4 turn after gasket contacts the base.
- 6. Fill with oil tank with five quarts (4.75 liters) of hydraulic oil. See page 25 for hydraulic oil specifications.
- 7. Check oil level.



Troubleshooting

Troubleshooting



Problem	Cause	Solution	
Internal combustion engine pulls hard (won't start)	Hydraulic pressure is too high	Turn hydraulic pressure knob counterclockwise to lowest setting	
Gasoline engine does not start	Switch OFF, low oil, no gasoline	Consult engine manual	
	Fuel shut off valve closed	Open fuel shut off valve	
Gasoline 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	
Diesel engine does not start	No fuel Incorrect injection timing, rings worn or sticking.	Consult engine manuals	
Diesel engine does not work properly	Faulty engine	Consult engine manuals	
	Poor fuel quality	Drain fuel tank and replace fuel with good clean fuel	
Internal combustion engine	Hydraulic pump valve is OFF	Set hydraulic pump valve ON	
operates, but displacement pump does not operate	Pressure setting too low	Increase pressure, page 19.	
	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 19.	
	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	no allow it to become too low. See page	e 25 for hydraulic oil specifications.	

Standard Series Pump

Standard Series Pump

Removal



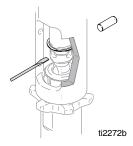
See pump manual 334654 for pump repair.

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

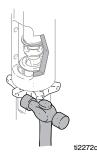




4. Push retaining ring up; push out pin.



5. Loosen jam nut. Unscrew pump.

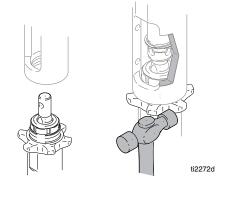


Installation

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.

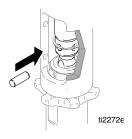


Standard Series Pump

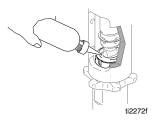


If pin is loose, parts could break off and project through the air, resulting in serious injury or property damage. Make sure pin is properly installed.

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

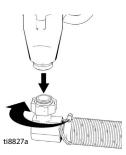
ProContractor Series Pump

Removal

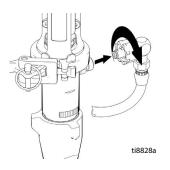


See pump manual 334654 for pump repair.

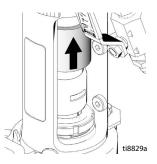
- 1. Flush pump.
- 2. Perform **Pressure Relief Procedure**, page 13.
- 3. Remove suction hose.



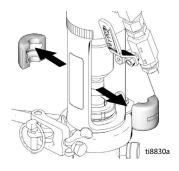
4. Remove paint hose fitting and paint hose from pump fitting.



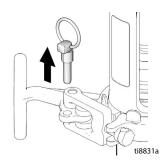
5. Slide coupler cover up to fully expose rod couplers.



6. Remove rod couplers.



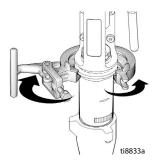
7. Remove pin.



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

ProContractor Series Pump

8. Open clamp.

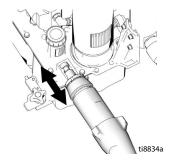


9. Remove pump from unit.

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Installation

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



2. Reverse removal steps to reassemble pump.



Repair

Hydraulic Pump

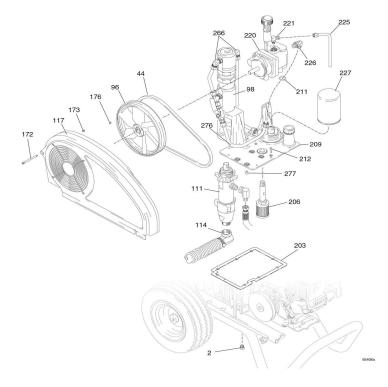


Removal

Let hydraulic system cool before starting service.

- 1. Place drip pan or rags under sprayer to catch hydraulic oil that leaks out during repair.
- 2. Remove drain plug (2) and oil filter (227) and allow hydraulic oil to drain.
- 3. Disconnect suction tube (114).

- 4. Disconnect paint pump (111), page 29 or 31.
- 5. Remove screw (172), nut (173) and belt guard (117).
- 6. Raise motor and remove belt (44).
- 7. Remove two set screws (176) and fan pulley (96).
- 8. Remove case drain tube (225).
- 9. Remove elbow (221).
- Remove tube (276) from elbow (226). Remove elbow (226) from hydraulic pump (98).
- 11. Remove eight screws (212) reservoir cover (209) filter assembly (206) and gasket (203).
- 12. Remove four screws (277) and hydraulic pump (98) from reservoir cover (209).



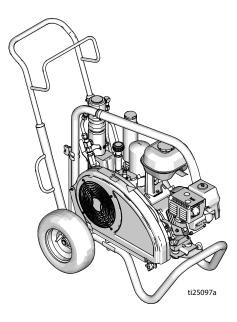
Repair

Installation

- Install hydraulic pump (98) to reservoir cover (209) with four screws (277); torque 100 in-lb (11 N⋅m).
- Install gasket (203) and reservoir cover (68) with eight screws (212); torque 90 in-lb (10 N·m).
- Install elbow (226) in hydraulic pump (98). Install elbow (226) in tube (276). Torque to 15 ft-lb (20.3 N·m).
- Install elbow (221); torque to 15 ft-lb (20.3 N⋅m).
- Install case drain tube (225); torque to 25 ft-lb (33.9 N⋅m).
- 6. Install fan pulley (96) with two set screws (176).
- 7. Raise motor and install belt (44).
- 8. Install belt guard (117) with screw (172) and nut (173).
- 9. Connect paint pump (111), page 29 or 32.
- 10. Connect suction tube (114).
- Install drain plug (40); torque to 110 in-lb (12.4 N·m). Install oil filter (47); tighten 3/4 turn after gasket contacts base. Fill hydraulic pump with Graco hydraulic oil, page 6, through elbow (22) port until full. Fill reservoir with remaining hydraulic oil.
- 12. Start up and allow pump to operate at low pressure for approximately 5 minutes to purge all air.
- 13. Check oil hydraulic oil and top off, if required.

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

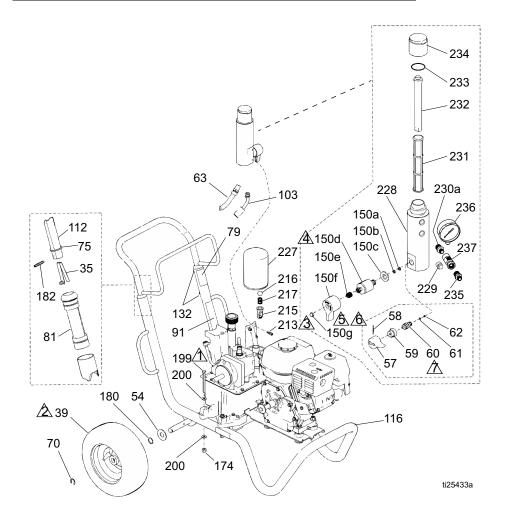
GH^m130/200/230/300 Standard Series Parts



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

GH™130/200/230/300 Standard Series

Ref.	Torque	Ref.	Torque
\wedge	120-130 in-lb (13.6 - 14.7 N•m)	ß	15-25 in-lb (1.7 - 2.8 N•m)
\triangle	Inflate tires to 25-35 psi (1.7-2.4 bar)	\bigcirc	Apply Locktite 242
A	110-120 in-lb (12.4 - 13.6 N•m)	\mathbb{A}	35-45 ft-lb (47.5 - 61.0 N•m)
4	355-395 in-lb (40.1 - 44.6 N•m)		



Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
35	112827	BUTTON, snap	2	150d★		VALVE, assembly	1
39		WHEEL, pneumatic,	2	150e★	114708	SPRING, compression	1
		GH130 & 200		150f★	15G563	HANDLE, valve	1
	119509		2	150a★	116424	NUT, cap, hex hd	1
		GH230 & 300		174	110838		2
54	156306	WASHER, flat	2	180	116038	WASHER, wave spring	2 2
57	15C780	HANDLE, GH130	1	182	101354	PIN, spring, straight,	2
58	15C972	PIN, grooved, GH130	1			GH130 & 200	
59		BASĒ, valve, GH130	1		108068	PIN, spring, straight,	2
60	235014	VALVE, replacement, kit,	1			GH230 & 300	
		GH130		199	867539	SCREW, flat head	2
61�	15E022	SEAT, valve, GH130	1	200	100527		4
62�	277364	GASKET, seat, valve,	1	213	119426	SCREW	3
		GH130		215	198841	RETAINER	1
63	243814	HOSE	1	216	100084	BALL, metallic	1
70	120211	CLIP, retaining	2	217	116967	- /	1
75	15J645	WASHER, GH130 & 200	2	227	246173	, , ,	1
	183350	WASHER, GH230, & 300	2	228‡	15E599		1
79▲	189246	LABEL, warning	1	229‡		PLUG, pipe	1
	17D947	LABEL, warning,	1	230a	196178	,	1
		multi-languages				hose connection	
81	192027	SLEEVE, cart	2	231‡	244067		1
91▲	194317	LABEL, warning	1	232‡		TUBE, diffusion	1
	16N948	LABEL, warning, ISO	1	233‡	117285		1
	17D947	LABEL, warning,	1	234‡		CAP, filter	1
		multi-languages		235		ADAPTER, GH130/200	1
103	288732	HOSE, drain	1	000		ADAPTER, GH230/300	1
112		HANDLE, cart	1	236	102814	,	1
116	288169		1	237	243683	SWIVEL	1
	248815		1	▲Dang cost.	ger and W	arning labels are available a	at no
132	109032	SCREW, mach, pnh	4	Inclue 2350		rain Valve Replacement Kit	
150‡	245103	VALVE, drain, GH200, 230, 300				rain Valve Replacement Kit	
150a ★	193710	SEAL, valve	1	2451	103	-	
	193709		1	‡ Inclu	ded in Filt	er Replacement Kit 24W75	3
	114797	GASKET	1				
1000	114/3/		I				

Parts-Engines GH™130/200/230 Standard Series

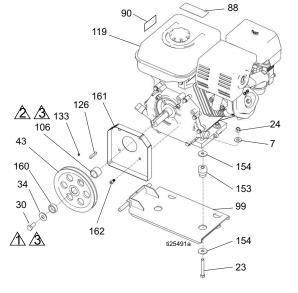
Ref.	Torque	Ref.	Torque
\wedge	120-130 in-lb (13.6 - 14.7 N•m)	3	Apply Locktite 242
Δ	58-62 in-lb (6.6 - 7.0 N•m)		

12 /3 126 $\Lambda \Lambda$

GH[™]300 Standard Series

GH[™]130/200/230

Standard Series

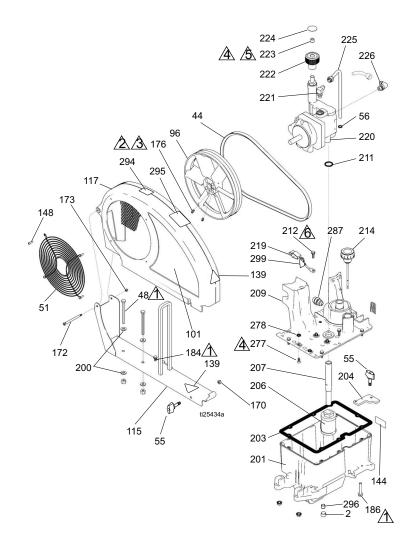


Parts List Engines

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
7	100023		4		25P300	ENGINE, gasoline, 160 cc,	1
23	100132 113664	200, 230, & 300 (Vanguard) WASHER, flat, GH300 SCREW, cap, hex hd,	4 4		116298	(China Only) ENGINE, gasoline, 200 cc, Honda, GH230	1
23	113004	GH130, 200, 230, & 300 (Vanguard)	4		25P370		1
	106212		4		803900		1
24	110838	NUT, lock, GH130, 200, 230, & 300 (Vanguard)	4		248945V	*	1
30	101566 108842	NUT, lock, GH300 SCREW, cap, hex hd,	4 1	126	117632	pliant) KEY, square, 3/16 X 1.25,	1
00		GH130, 200 & 230	-		119484	GH130, 200 & 230	1
	116645	SCREW, cap, hex hd, GH300	1		119404	GH300	I
34	112717	WASHER, GH130, 200 & 230	1	133 153	100002 15E888	SCREW, set, sch DAMPENER, motor mount,	1 4
43		WASHER, GH300 PULLEY, 5.50 in, GH130,	1 1			GH130, 200, 230, & 300 (Vanguard)	
	119401	200 & 230 PULLEY, GH300	1		195515	DAMPENÉR, motor mount, GH300	4
88▲		LABEL, warning	1	154		WASHER, plain	8
		LABEL, warning, Chinese	1	160		SPACER, GH300	1
90▲	16Y720	LABEL, warning, ISO engine	1	161 162		SHIELD, GH300 SCREW, GH300	1 4
99	15F157		1	▲ Da	nger and	Warning labels are available a	at no
	15E583	BRACKET, mounting,	1	cos			
106	15B314	engine, GH300 SLEEVE, motor shaft, GH130, 200 & 230	1	*Engii 2886	ne Repair 78 120	<i>Kits:</i> cc (4.0 HP)	
	15E586	SLEEVE, motor shaft,	1	25P9		cc (4.0 HP) (China only)	
119*	120590	GH300 ENGINE, gasoline, 120 cc,	1	2489		cc (5.5 HP)	
		Honda, GH130		18A9		cc (5.5 HP) (China only)	
	25P297	- , , .,	1	2489		cc (6.5 HP)	
		(China Only)		18A9		cc (6.5 HP) (China only)	
	802264	ENGINE, gasoline, 160 cc, GH200	1	2489	45 270	cc (9.0 HP)	

Parts - Fan Belt GH™130/200/230/300 Standard Series

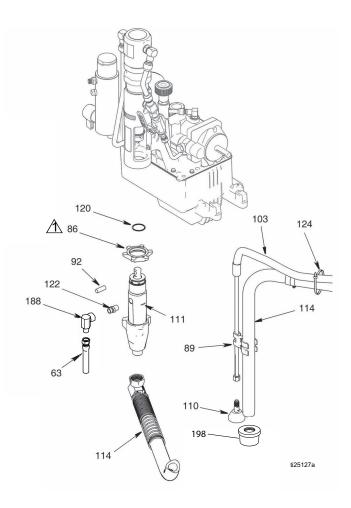
Ref.	Torque	Ref.	Torque
\wedge	120-130 in-lb (13.6 - 14.7 N•m)	4	90-110 in-lb (10.2 - 12.4 N•m)
2	Apply Locktite 242	\$	Apply Locktite 277
A	55-62 in-lb (6.7 - 7.0 N•m)	\bigcirc	110-120 in-lb (12.4 - 13.6 N•m)



Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
2	101754	•	1	203	120604	GASKET, reservoir	1
44		BELT, GH130, 200, 230	1	204	15E476	BRACKET, retainer, motor	1
		BELT, GH300	1	206	116919		1
48		SCREW, hex head	2	207	15E587	TUBE, suction	1
51	117284	,	1	208	154594	PACKING, o-ring	1
55		NUT, hand	2	209	15J363	COVER, reservoir	1
56	154594		1	211	156401	PACKING, o-ring	1
96		PULLEY, fan	1	212	119426	SCREW	8
101		LABEL, GH130	1	214	120726	CAP, breather, filler	1
		LABEL, GH200	1	219	237686	WIRE, ground with clamp	1
		LABEL, GH230	1	220	288733	PUMP, hydraulic, GH130	1
		LABEL, GH300	1		246178	PUMP, hydraulic, GH200	
115		RAIL, belt guard, assembly,	1		249003	PUMP, hydraulic, 230/300	
		GH130 & 200		221	110792	FITTING, elbow, male, 90°	1
	288393		1	222	15B438	KNOB, pressure	1
	200000	GH230 & 300		223	117560	SCREW, set, socket head	1
117	288734		1	224	15A464	LABEL, control	1
	200704	painted, GH130 & 200	I	225	246167	TUBE, hydraulic, case	1
	248973		1			drain	
	240973	painted, GH230 & 300	1	226	116829	FITTING, elbow, with	1
400 4	101700	· · · ·	2			o-rings	
		LABEL, warning	2	277	117471	SCREW	4
144	15K440	LABEL, GH/EH cooling		278	107188	PACKING, o-rings	4
		system		284	16P142	LABEL, hydraulic fluid, GH	1
148	115477	- , , ,		287	120184	FITTING	1
170	102040		1	294	16D576	LABEL, made in USA	1
172	119434	SCREW, shoulder, socket	1	295	16X983	LABEL, standard series	1
		head		296	116618	MAGNET	1
173	116969	- ,	1	299	290079	LABEL, ground warning,	1
176	120087	_ , ,	2			English	
184	260212	SCREW, hex washer hd,	1		16Y633	LABEL, ground warning,	1
		thd form				Chinese	
186	120655	SCREW, mach, hex	2				
		washer head		▲ Da	nger and \	Narning labels are available	at no
200	100527	WASHER	4	COS	•		
201	15J513	TANK, reservoir	1	000	••		
202	101754	PLUG, pipe	1				

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

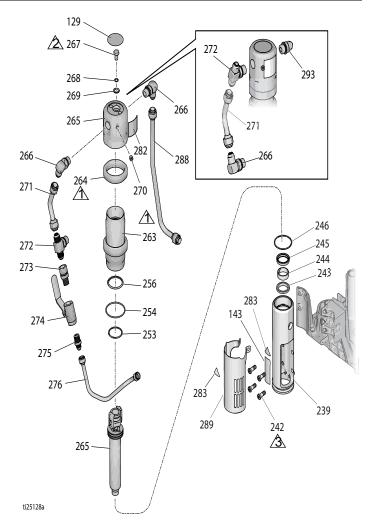
Ref.	Torque				
Λ	70-80 ft-lb (94.9 - 108.5 N•m)				



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

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

Ref.	Torque	Ref.	Torque
\wedge	145-155 ft-lb (196.6 - 210.2 N•m)	3	140-160 in-lb (15.8 - 18.1 N•m)
	12-18 ft-lb (16.3 - 24.4N•m)		



Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
129▲♦√	15B063	LABEL, warning, hot	1	272♦	117609	FITTING, tee, branch, str thd	1
143▲		surface LABEL, GH130	1	273	117328		1
		LABEL, GH200 LABEL, GH230	1 1	274	117441		1
		LABEL, GH230	1	275	116813		1
239♦		MANIFOLD, GH130	1	210	110010	hydraulic	
200 \$		MANIFOLD, GH200	1	276	15J819		1
		MANIFOLD, GH230 &	1			supply, GH130	
		300			17D268	TUBE, hydraulic,	1
242		SCREW, cap socket	4			supply, GH200	
243‡♦		WIPER, rod	1		17D270	TUBE, hydraulic,	1
244‡♦		BEARING, rod	1			supply, GH230, GH300	
245‡♦		PACKING, block	1	282√	15B804	LABEL, Graco logo	1
246‡ ♦		PACKING, o-ring	2	283▲◆	15H108	LABEL, warning, finger	2
253‡♦√		PACKING, o-ring	1			pinch	
254‡◆√ 256±◆√		SEAL, piston BEARING, piston	1 1	288	15J824		1
263♦	246176	SLEEVE, hydraulic	1			return, GH130	
200*	240170	cylinder, kit, GH130 &			17D267	TUBE, hydraulic,	1
		200				return, GH200	
	248991	SLEEVE, hydraulic	1		17D269	TUBE, hydraulic,	1
	240001	cylinder, kit, GH230 &			047470	return, GH230 & 300	
		300)		289	24X473	SHIELD, rod,	1
264♦	15A726	NUT, jam	1		041/474	GH130/200	1
265		KIT, repair, trip rod,	1		248474	SHIELD, rod,	1
		piston; GH130 only		293	120101	GH230/300	1
	288754		1	293	120184	FITTING, straight, OEM kits only	I
		piston; GH 200 only				Kits Offy	
	288755	KIT, repair, trip rod,	1	▲Dange	er and War	ning labels are available a	at no
		piston; GH 230/300		cost.			
		only			ed in Hvdr	aulic Motor Repair Kit: 28	8758
266�	117607	-)				1- GH200; 248977 - GH2	
267√♦		SCREW, cap, hex head		300			
268√♦		PACKING, o-ring	1	√ Includ	ed in Trip I	Rod/Piston Kit: 288735 -	
269√◆		WASHER, sealing	1			- GH200; 288755 - GH23	8 0
270√✦ 271✦		PLUG, pipe TUBE, hydraulic,	1 1	300			
211▼	190029	supply, GH130 & 200	I	‡ Include	ed in Seal	Kit 246174	
	15E596	TUBE, hydraulic,	1				
	.02000	supply, GH230 & 300					
		54ppiy, 01 200 0 000					

Parts

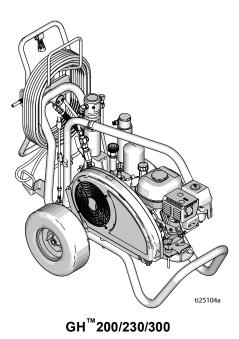
GH™130/200 Standard Series w/ Spray Gun and Hose

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)	-	203
203	18H150	Contractor Spray Gun Includes LP517 RAC [®] X SwitchTip and HandTite [™] Guard See 311861 for parts	1	

GH[™]230/300 Standard Series w/ Spray Gun and Hose

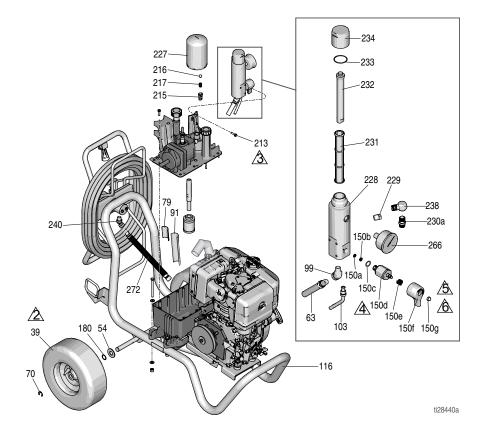
Ref.	Part No.	Description	Qty.	
202	287042	KIT, gun, Silver 3300 psi (227	1	
		bar, 22.7 MPa) Includes 202a -		
		202d		202c 202b
202a	240797	HOSE, grounded, nylon; 3/8 in.	1	
		ID;cpld 3/8-18 npsm; 50 foot		
		(15 m); spring guards both ends		
2026	2/1725	3300 psi (227 bar, 22.7 MPa) HOSE, grounded, nylon; 1/4 in. ID;	1	
2020	241755	cpld $1/4$ npt(m) x $1/4$ npsm(f);	'	202d
		3 foot (0.9 m); spring guards both		
		ends 3300 psi (227 bar, 22.7 MPa)		
202c	21A014	Silver Spray Gun	1	202a ti5413b
		Includes LP517 RAC [®] X		
		SwitchTip and HandTite [™]		
		Guard See 311254 for parts		
202d	159841	3/8 x 1/4 bushing	1	

GH[™]200/230/300 ProContractor Series Parts (OEM Kits)



Parts GH™200/230/300 ProContractor Series

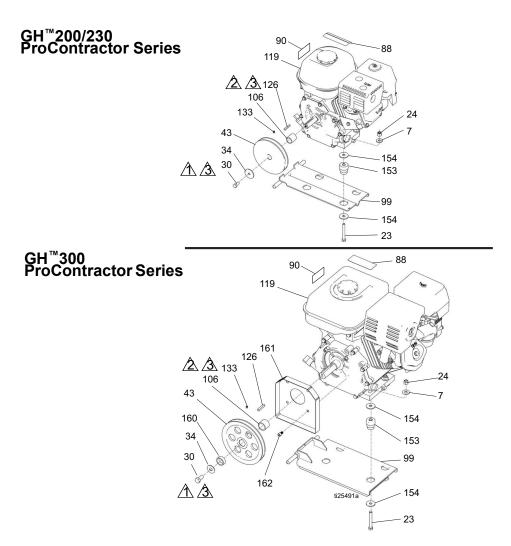
Ref.	Torque	Ref.	Torque
\wedge	120-130 in-lb (13.6 - 14.7 N•m)	4	355-395 in-lb (40.1 - 44.6 N•m)
\triangle	Inflate tires to 25-35 psi (1.7-2.4 bar)	∕₫	15-25 in-lb (1.7 - 2.8 N•m)
3	110-120 in-lb (12.4 - 13.6 N•m)		Apply Locktite 242



Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
39	119509	WHEEL, pneumatic	2	215	198841	RETAINER	1
54	156306	WASHER, flat	2	216	100084	BALL, metallic	1
63	243814	HOSE	1	217	116967	SPRING, compression	1
70	120211	CLIP, retaining	2	227	246173	FILTER, oil, spin on	1
79▲	189246	LABEL, warning	1	228‡	15E599	HOUSING	1
	17D947		1	229‡		PLUG, pipe	1
		multi-languages		230a	196178	ADAPTER 3/8 npsm (m)	1
91	194317	LABEL, warning	1			hose connection	
		LABEL, warning, ISO	1	231‡	244067	,	1
		LABEL, warning,	1	232‡	15C766	,	1
		multi-languages	•	233‡	117285	, 5	1
99	116756	FITTING, elbow 45°	1	234‡		CAP, filter	1
116		FRAME, cart	1	238	196179		1
150±		VALVE, drain	•	240	161889		1
	193710	SEAL, valve	1	266	868015	GAUGE	1
	193709	SEAT, valve	1	272	198847	HOSE, coupled	1
	114797	GASKET	1				- 4
1500★		VALVE, assembly	1		•	/arning labels are available	at no
	114708	SPRING, compression	1	cost	-		
		, ,	1	★ Inci	luded in D	rain Valve Replacement Kit	
		HANDLE, valve	1	245	103		
•	116424	NUT, cap, hex hd	1	‡ Inclu	ided in Filt	ter Replacement Kit 24W75	3
180	116038	WASHER, wave spring	2				
213	119426	SCREW	3				

Parts - Engines

Ref.	Torque	Ref.	Torque
\wedge	120-130 in-lb (13.6 - 14.7 N•m)	3	Apply Locktite 242
Δ	58-62 in-lb (6.6 - 7.0 N•m)		

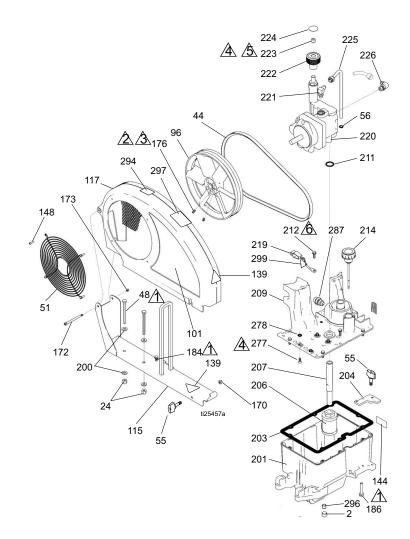


Engine Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
7	100023	WASHER, flat, GH200,	4		803900		1
		230, & 300 (Vanguard)				Honda, GH300	
	100132	WASHER, flat, GH300	4		248945V	ENGINE, gasoline, 10 HP,	1
23	113664	SCREW, cap, hex hd,	4			(Vanguard, California com-	
		GH200, 230, & 300 (Van-				pliant)	
		quard)		126	117632	KEY, square, 3/16 X 1.25,	1
	106212	0 /	4			GH130, 200 & 230	
		GH300			119484	KEY, parallel, square,	1
24	110838	NUT, lock, GH200, 230, &	4			GH300	
		300 (Vanguard)		133	100002	SCREW, set, sch	1
	101566		4	153	15E888	DAMPENER, motor mount,	4
30		SCREW, cap, hex hd	•			GH200, 230, & 300 (Van-	
	108842		1			quard)	
	116645	GH300	1		195515	DAMPENER, motor mount,	4
34	112717	WASHER, GH200 & 230	1			GH300	
	119438	WASHER, GH300	1	154	108851	WASHER, plain	8
43	116908	PULLEY, 5.50 in, GH200 &	1	160	15E764	SPACER, GH300	1
		230		161		SHIELD	
		PULLEY, GH300	1		15E973	GH300	1
88▲		LABEL, warning	1	162		SCREW, GH300	4
	16Y631	LABEL, warning, Chinese	1	196▲	17K859	LABEL, safety, hot surface	2
90 🛦	16Y720	LABEL, warning, ISO	1				
		engine		🔺 Da	anger and	Warning labels are available a	at no
99	15F157	BRACKET, mounting,	1	COS	st.		
		engine, GH200 & 230					
	15E583	BRACKET, mounting,	1				
		engine, GH300		*Enaiı	ne Repair	Kits:	
106	15B314	SLEEVE, motor shaft,	1	2489		cc (5.5 HP)	
		GH200 & 230		2489	44 200) cc (6.5 HP)	
	15E586	SLEEVE, motor shaft,	1	2489		cc (9.0 HP)	
		GH300		2403	45 270		
119*	802264	ENGINE, gasoline, 160 cc,	1				
		GH200					
	116298	ENGINE, gasoline, 200 cc,	1				
		Honda, GH230					

Parts - Fan Belt GH™200/230/300 ProContractor Series

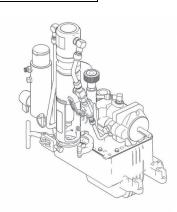
Ref.	Torque	Ref.	Torque
\wedge	120-130 in-lb (13.6 - 14.7 N•m)	4	90-110 in-lb (10.2 - 12.4 N•m)
2	Apply Locktite 242	\$	Apply Locktite 277
A	55-62 in-lb (6.7 - 7.0 N•m)	\bigcirc	110-120 in-lb (12.4 - 13.6 N•m)

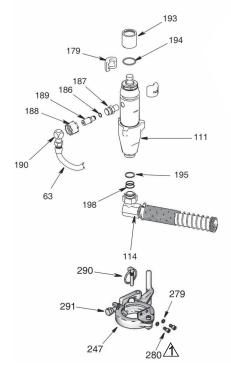


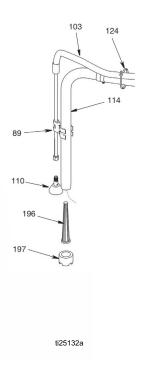
Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
2	101754	•	1	203	120604	GASKET, reservoir	1
24		NUT. lock	2	204	15E476	BRACKET, retainer, motor	1
44		BELT, GH200, 230	1	206	116919		1
		BELT, GH300	1	207	15E587	TUBE, suction	1
48		SCREW, hex head	2	208	154594	PACKING, o-ring	1
51		GRILL, fan guard	1	209	15J363	COVER, reservoir	1
55		NUT, hand	2	211	156401	PACKING, o-ring	1
56		O-RING	1	212	119426	SCREW	8
96		PULLEY, fan	1	214	120726	CAP, breather, filler	1
101		LABEL, GH200	1	219	237686	WIRE, ground with clamp	1
		LABEL, GH230	1	220	246178	PUMP, hydraulic, GH200	
		LABEL, GH300	1		249003	PUMP, hydraulic, 230/300	
115		RAIL, belt guard, assembly,	1	221	110792	FITTING, elbow, male, 90°	1
		GH200	•	222	15B438	KNOB, pressure	1
	288303	RAIL, belt guard, assembly,	1	223	117560	SCREW, set, socket head	1
	200000	GH230 & 300	1	224	15A464	LABEL, control	1
117	288734		1	225	246167	TUBE, hydraulic, case	1
117	200754		1			drain	
	248973	painted, GH200	1	226	116829	FITTING, elbow, with	1
	240973		I			o-rings	
100 4	4014700	painted, GH230 & 300	0	277	117471		4
		LABEL, safety, warning	2	278	107188	PACKING, o-rings	4
144	15K440	LABEL, GH/EH, cooling	1	284		LABEL, hydraulic fluid, GH	1
		system		287		FITTING	1
148	115477	- , , ,		294		LABEL, made in USA	1
170		NUT, lock, hex	1	296		MAGNET	1
172	119434	SCREW, shoulder, socket	1	297	17D033	LABEL, ProContractor	1
		head				series	
173	116969	NUT, lock	1	299	290079		1
176	120087	SCREW, set, 1/4 X 1/2	2	200	200010	English	•
184	260212	SCREW, hex washer hd,	1		16Y633		1
		thd form			101000	Chinese	
186	17D142	SCREW, mach, hex	2			Chinese	
		washer head			nanarand	Norning Jobolo are available	of no
200	100527	WASHER	4		•	Warning labels are available	ai 110
201	15J513	TANK, reservoir	1	cosi	Γ.		
202	101754		1				
202	101734	FLOG, pipe	I				

Parts GH™200/230/300 ProContractor Series

Ref.	Torque
Λ	90-110 in-lb (10.2 - 12.4 N•m)





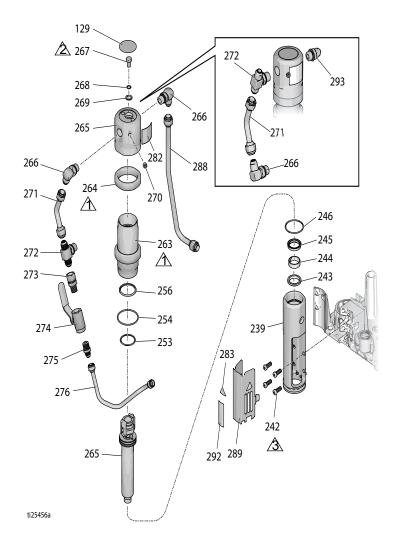


GH[™]200/230/300 ProContractor Series Parts

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
63	243814	HOSE, coupled	1	194	156698	PACKING, o-ring	1
111		PUMP, kit, displacement,	1	195	119566	WASHER, garden hose	1
		GH200	·	196*	288472	INLET FILTER, 10 mesh	1
	24W998	PUMP, kit, displacement,	1		289131	INLET FILTER, 16 mesh	1
	2111000	GH230 & 300	•	197*	288480	NUT, strainer, inlet	1
114	288252		1	198	117559	O-RING	2
	LOOLOL	GH200. 230 & 300	•	247	288344	CLAMP, pump; GH 200,	1
115	289669	HOSE, suction, 30/55 gal-	1			230, 300	
115	200000	lon, GH200/230/300 (not	1	279	105510	WASHER, lock, spring	2
		shown)				(hi-collar), GH200, GH230,	
179	277377	COUPLER	2			GH300	
186	107505	PACKING, o-ring	2 1	280	101550	SCREW, cap, sch	2
187	15J413	FITTING, pump, QD	1	290	288741	KIT, repair, pin/spacer; GH	1
188	120583	NUT, hand,	1			200, 230, 300	
100	120000	GH200/230/300	1	291	15J417	BOLT, adjustment; GH 200,	1
189	15J410	FITTING. QD	1			230, 300	
190	196179	FITTING, elbow, street,	1	* Incl	uded in A	ccessory Kit 288481 (10 mes	sh) or
100	100179			Acc	essory Ki	t 289132 (16 mesh)	-
193	15H957	sprayer COVER, coupler	1		,		
135	1011007		1				

Parts GH™200/230/300 ProContractor Series

Ref.	Torque	Ref.	Torque
\wedge	145-155 ft-lb (196.6 - 210.2 N•m)	3	140-160 in-lb (15.8 - 18.1 N•m)
Δ	12-18 ft-lb (16.3 - 24.4N•m)		



GH[™]200/230/300 ProContractor Series Parts

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
129▲♦√	15B063	LABEL, warning, hot	1		15E596	TUBE, hydraulic,	1
143		surface LABEL, GH200	1	272♦	117609	supply, GH230 & 300 FITTING, tee, branch,	1
		LABEL, GH230	1			str thd	
		LABEL, GH300	1	273	117328	FITTING, nipple,	1
239♦		MANIFOLD, GH200	1			straight	
	15J279	MANIFOLD, GH230 &	1	274	117441	VALVE, ball	1
		300		275	116813	FITTING, nipple,	1
242♦	15B564	- , .	4			hydraulic	
243‡♦	117739	WIPER, rod	1	276	15J846	TUBE, hydraulic,	1
244‡♦	112342	BEARING, rod	1			supply, GH200	
245‡♦	112561	PACKING, block	1		15J864	TUBE, hydraulic,	1
246‡♦	117283	PACKING, o-ring	2			supply, GH230, GH300	
253‡♦√		PACKING, o-ring	1	282▲√		LABEL, Graco logo	1
254‡◆√ 256±◆√		<i>i</i> i	1 1	283▲♦		LABEL, warning	2
263◆	246176	BEARING, piston SLEEVE, hydraulic	1	288	15J845	TUBE, hydraulic,	1
203	240170	cylinder, kit, GH200	1			return, GH200	
	248991	SLEEVE, hydraulic	1		15J863	TUBE, hydraulic,	1
	240331	cylinder, kit, GH230 &	1		45 1500	return, GH230 & 300	
		300		289	15J503	, ,	1
264♦	15A726		1		16M/49	SHIELD, rod, GH230 &	1
265 ♦	288736	KIT, repair, trip rod,	1	2024	455504		4
200*	200700	piston; GH 200 only		292♦ 293	120184	LABEL, ProConnect	1 1
	288737	KIT, repair, trip rod,	1	293	120104	FITTING, straight, OEM kits only	I
	200101	piston; GH 230/300				KILS ONLY	
		only		▲ Dance	r and War	ning labels are available	at no
266♦	117607	FITTING, elbow std thd	1 2	cost.		ing labels are available	aino
267√♦	106276				ed in Hydr	aulic Motor Repair Kit: 28	8750
268√♦	155685	PACKING, o-ring	1		00: GH230		0700
269√♦	178179	WASHER, sealing	1			Rod/Piston Kit: 288736 -	
270√♦	100139	PLUG, pipe	1): GH230 8		
271♦	198629	TUBE, hydraulic, supply, GH200	1		,	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.	2	
		ID;cpld 1/4-18 npsm; 50 foot		AT THE
		(15 m); spring guards both ends	6	_ 202
202	1011150	3300 psi (227 bar, 22.7 MPa)		
203	101120	Contractor Spray Gun	- T	203
		Includes LP517 RAC [®] X		
		SwitchTip and HandTite [™]		204 30
		Guard See 311861 for parts		
204	162453	ADAPTER	1	ti25447a

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

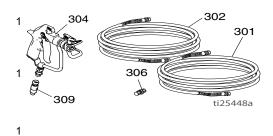
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Ref. Part No. Description

301	240794	
		ID;cpld 1/4-18 npsm; 50 foot
		(15 m); spring guards both ends
	040707	3300 psi (227 bar, 22.7 MPa)
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)
304	21A014	Silver Spray Gun
		Includes LP517 RAC [®] X
		SwitchTip and HandTite [™]
		Guard See 311254 for parts
306	164672	3/8 x 1/4 adapter
309	239663	SWIVEL

Qty.

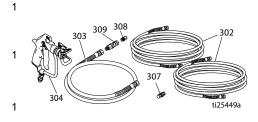


GH[™]200/230/300 ProContractor Series Parts

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

Ref. Part No. Description

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		1
304	21A014	Silver Spray Gun Includes LP517 RAC [®] X SwitchTip and HandTite [™] Guard See 311254 for parts	1
307 308 309		3/8 x 3/8 nipple 3/8 x 1/4 bushing SWIVEL	1 1 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	211 216
201	24E016	SEAL, fitting, flared	1	215
203	122607	WASHER, flat	2	205
204	122534	SPRING, wave	1	205 214
205	24B691	REEL, hose	1	
206	122524	RING, retaining, external	1	
208	24B248	CAP, swivel, complete	1	209 208
209	122347	RING, retaining, external	1	221
210	122787	CAP	1	
211	24E400	PIN, pop, lock out	1	201
212	278085	HANDLE, swivel	1	
213	122518	SCREW, shoulder, sch	1	204
214	122542	SPRING, die	1	125133a
215	122669	WASHER, flat	1	
216	15X618	NUT, swivel, handle	1	
221	164672	ADAPTER, GH200	1	A
221	104072	ADAI TER, OTZOU	',	/ Torque to 120-130 in-lbs (13.6-14.7 N⋅m)
	196178	ADAPTER, GH230/300		
			4	Ô Torque to 25-35 ft-lbs (33.9-47.5 N⋅m)
			4	⚠ Torque to 130-150 in-lbs (14.7-16.9 N⋅m)

A Loctite 277

334558K

CU™120	Standard	Sariaa
GL.120	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 c	c (4.0 HP)
Maximum tip size	C	0.037
Maximum free-flow delivery	1.30 gpm	5.9 l/min
Hose connection	1/4 r	ipsm (m)
Noise (dBa)		
Maximum sound pressure	8	8 dBa
Maximum sound power	10	3 dBa
Inlet/Outlet Sizes		
Fluid inlet size	3/4	npt (m)
Fluid outlet size	3/8	npt (f)
Dimensions		
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 n	psm (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

	US	Metric	
Maximum fluid working pressure	3300 psi	22.8 MPa, 228 ba	
Hydraulic reservoir capacity	1.25 gallons	4.75 liters	
Maximum hydraulic pressure	1855 psi	12.8 MPa,128 ba	
Engine	200 c	c (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 / 305 cc	(9.0 HP / 10 HP)
Maximum tip size	0.	057
Maximum free-flow delivery	3.0 gpm	11.4 l/min
Hose connection	3/8 nr	osm (m)
Noise (dBa)		
Maximum sound pressure	96	dBa
Maximum sound power	110) dBa
Inlet/Outlet Sizes		
Fluid inlet size	1 5/16-1	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

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 r	npsm (m)
Noise (dBa)		
Maximum sound pressure	9	6 dBa
Maximum sound power	11	10 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	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	c (6.5 HP)
Maximum tip size	0	.053
Maximum free-flow delivery	2.35 gpm	10.7 l/min
Hose connection	3/8 n	ipsm (m)
Noise (dBa)		
Maximum sound pressure	96	6 dBa
Maximum sound power	11	0 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

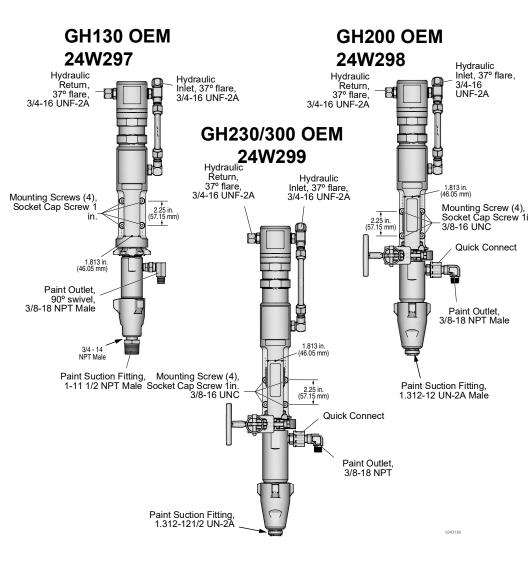
GH[™]300 ProContractor Series

	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 / 305 c	c (9.0 HP / 10 HP)
Maximum tip size	(0.057
Maximum free-flow delivery	3.0 gpm	11.4 l/min
Hose connection	3/8 r	npsm (m)
Noise (dBa)		
Maximum sound pressure	9	6 dBa
Maximum sound power	11	I0 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	14	l5 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

All Models:

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



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.

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

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Original instructions. This manual contains English. MM 334558

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