

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

311797F

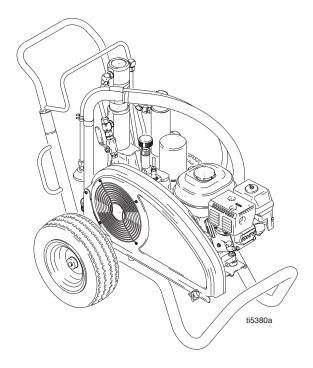
- Use with Architectural Coatings and Paints -

3300 psi (2.8 MPa, 228 bar) Maximum Working Pressure List of models provided on page 2.

Important Safety Instructions.



Read all warnings and instructions in this manual. Save these instructions. Contact Graco Customer Service, your local Graco distributor or our website: www.graco.com, to obtain a manual in your language.



English

PROVEN QUALITY. LEADING TECHNOLOGY.



Models

	GH130	GH200	GH230	GH300	120 Vac	ETL/CSA/UL 120 Vac 60 Hz	
					60 Hz	60 Hz	
253709	V						
253957	~						/
253959	/				/		
253980	~					~	
253960		/					
253962		/					/
253963		/	_		/		
253981		/				~	
255095		/					/
253964			✓				
253965			>				/
253966			>		V		
253982			>			✓	
253967				/			
253968				>			>

Electric Motor Kit Options

Kit Number	Sprayer Model	Description
288474	GH130	120VAC, 60Hz, 20A, CAS/UL approved
288473	GH130	120VAC, 60Hz, 15A
248950	GH200/GH230	120VAC, 60Hz, 20A, CSA/UL approved
248949	GH200/GH230	120 VAC, 60Hz, 15A
248946	EH200/HD1200	240VAC, 50Hz, 13.4A

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

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.
- 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.
- If there is static sparking or you feel a shock, **stop operation immediately.** Do not use equipment until you identify and correct the problem.
- Keep a working fire extinguisher in the work area.



SKIN INJECTION HAZARD

High-pressure fluid from gun, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. **Get immediate surgical treatment.**



- Do not point gun at anyone or at any part of the body.
- Do not put your hand over the spray tip.
- Do not stop or deflect leaks with your hand, body, glove, or rag.
- Do not spray without tip guard and trigger guard installed.
- Engage trigger lock when not spraying.
- Follow Pressure Relief Procedure in this manual, when you stop spraying and before cleaning, checking, or servicing equipment.



PRESSURIZED EQUIPMENT HAZARD

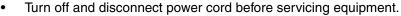
Fluid from the gun/dispense valve, leaks, or ruptured components can splash in the eyes or on skin and cause serious injury.

- Follow **Pressure Relief Procedure** in this manual, when you stop spraying and before cleaning, checking, or servicing equipment.
- Tighten all fluid connections before operating the equipment.
- Check hoses, tubes, and couplings daily. Replace worn or damaged parts immediately.



ELECTRIC SHOCK HAZARD

Improper grounding, setup, or usage of the system can cause electric shock.



- Use only grounded electrical outlets.
- Use only 3-wire extension cords.
- Ensure ground prongs are intact on sprayer and extension cords.
- Do not expose to rain. Store indoors.

A WARNING



MOVING PARTS HAZARD

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

- Keep clear of moving parts.
- Do not operate equipment with protective guards or covers removed.
- Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, follow the **Pressure Relief Procedure** in this manual. Disconnect power or air supply.



EQUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.

- Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See **Technical Data** in all equipment manuals.
- Use fluids and solvents that are compatible with equipment wetted parts. See **Technical Data** in all equipment manuals. Read fluid and solvent manufacturer's warnings.
- Check equipment daily. Repair or replace worn or damaged parts immediately.
- Do not alter or modify equipment.
- For professional use only.
- Use equipment only for its intended purpose. Call your Graco distributor for information.
- Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.
- Do not use hoses to pull equipment.
- Comply with all applicable safety regulations.



PRESSURIZED ALUMINUM PARTS HAZARD

Do not use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents in pressurized aluminum equipment. Such use can cause serious chemical reaction and equipment rupture, and result in death, serious injury, and property damage.



SUCTION HAZARD

Never place hands near the pump fluid inlet when pump is operating or pressurized. Powerful suction could cause serious injury.



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.



TOXIC FLUID OR FUMES HAZARD

Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed.

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



BURN HAZARD

Equipment surfaces and fluid that's heated can become very hot during operation. To avoid severe burns, do not touch hot fluid or equipment. Wait until equipment/fluid has cooled completely.

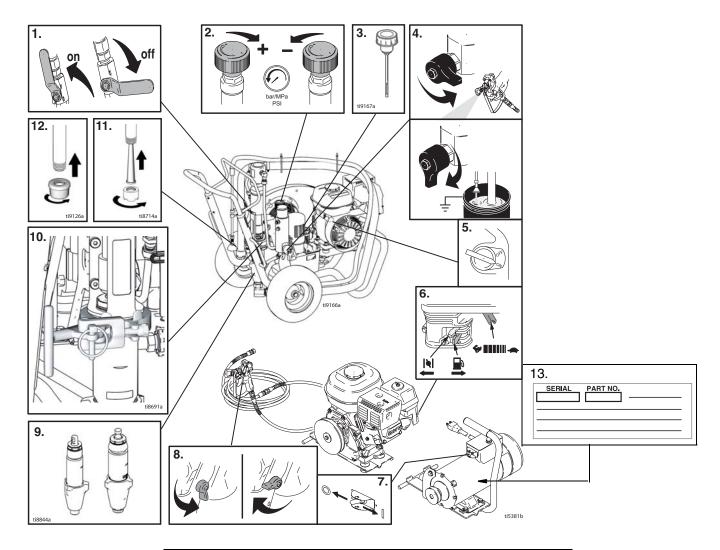


PERSONAL PROTECTIVE EQUIPMENT

You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, including eye injury, inhalation of toxic fumes, burns, and hearing loss. This equipment includes but is not limited to:

- Protective eyewear
- Clothing and respirator as recommended by the fluid and solvent manufacturer
- Gloves
- Hearing protection

Component Identification

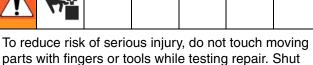


Item No.	Component
1	Hydraulic pump valve
2	Pressure control
3	Hydraulic Oil Cap
4	Drain valve
5	Engine ON/OFF switch
6	Engine controls
7	Electric motor On/Off Switch
8	Gun trigger Lock
9	Displacement pump
10	ProConnect [™]
11	Inlet strainer (standard)
12	Inlet strainer (option)
13	Serial number tag

General Repair Information







off sprayer when repairing. Install all covers, gaskets,

screws and washers before operating sprayer 1. Keep all screws, nuts, washers, gaskets, and electrical fittings removed during repair procedures. These parts

are not normally provided with replacement assemblies.

- 2. Test repair after problem is corrected.
- 3. If sprayer does not operate properly, review repair procedure to verify procedure was done correctly. If necessary, see Troubleshooting Guide, page 7, for other possible solutions.









4. Install belt guard before operation of sprayer and replace if damaged. Belt guard reduces risk of pinching and loss of fingers; see preceding WARNING.

Grounding

Ground sprayer with grounding clamp to earth ground for safe sprayer operation when using solvent-based materials. Fig. 1.

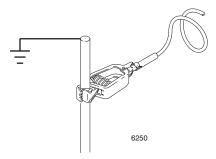


Fig. 1

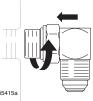
SAE O-Ring Installation

1. Unscrew lock nut to touch fitting.

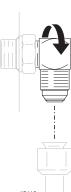




3. Screw in fitting hand tight.



4. Unscrew fitting until oriented properly.



5. Tighten lock nut to indicated torque. (Make sure washer is seated properly without pinching o-ring).



Maintenance









Pressure Relief Procedure

The system pressure must be manually relieved to prevent the system from starting or spraying accidentally. Fluid under high pressure can be injected through the skin and cause serious injury. To reduce the risk of an injury from injection, splashing fluid, or moving parts, follow the Pressure Relief Procedure whenever you:

- are instructed to relieve the pressure,
- stop spraying,
- · check or service any of the system equipment,
- or install or clean the spray tip.
- 1. Lock gun trigger safety.
- 2. Turn engine ON/OFF switch to OFF.
- 3. Move pump valve to OFF (down) and turn pressure control knob fully counter clockwise.
- 4. Unlock trigger safety. Hold metal part of gun firmly to side of grounded metal pail, and trigger gun to relieve pressure.
- 5. Lock gun trigger safety.
- 6. Open pressure drain valve. Leave valve open until ready to spray again.

If you suspect that the spray tip or hose is completely clogged, or that pressure has not been fully relieved after following the steps above, VERY SLOWLY loosen tip guard retaining nut or hose end coupling to relieve pressure gradually, then loosen completely. Now clear tip or hose.

CAUTION

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 safety for proper operation.

DAILY: Check pressure 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 viscosity.

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, page 10; 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 counter clock-	
		wise to lowest setting.	
Gas engine does not start	Switch OFF, low oil, no gasoline	Consult engine manual, supplied.	
Gas engine doesn't work properly	Faulty engine	Consult engine manual, supplied.	
	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	Hydraulic pump valve is OFF	Set hydraulic pump valve ON.	
pump doesn't operate	Pressure setting too low	Increase pressure.	
	Displacement pump outlet filter (if used)	Clean the filter.	
	is dirty or clogged		
	Tip or tip filter (if used) is clogged	Remove tip and/or filter and clean.	
	Hydraulic fluid too low	Shut off sprayer. Add fluid*.	
	Belt worn or broken or off	Replace, page 12.	
	Hydraulic pump worn or damaged	Bring sprayer to Graco distributor for repair.	
	Dried paint seized paint pump rod	Service pump. See manual 311845.	
	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	Piston ball check not seating properly	Service piston ball check. See manual	
is low on upstroke		311845.	
	Piston packings worn or damaged	Replace packings. See manual 311845.	
Displacement pump operates but output	Piston packings worn or damaged	Tighten packing nut or replace packings.	
is low on downstroke and/or on both		See manual 311845.	
strokes	Intake valve ball check not seating	Service intake valve ball check. See man-	
	properly	ual 311845.	
	Suction tube air leak		
Paint leaks and runs over side of wetcup	Loosen wet-cup	Tighten wet-cup enough to stop leakage.	
	Throat packings worn or damaged	Replace packings. See manual 311845.	
Excessive leakage around hydraulic motor piston rod wiper	Piston rod seal worn or damaged	Replace these parts.	
Fluid delivery is low	Pressure setting too low	Increase pressure.	
I laid delivery is low	Displacement pump outlet filter (if used)	Clean filter.	
	is dirty or clogged	Glean litter.	
	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	Use larger diameter or shorter hose.	
The sprayer overheats	Paint buildup on hydraulic components	Clean.	
Spitting from gun	Air in fluid pump or hose	Check for loose connections on siphon	
Opining from guir	This is flate partip of flood	assembly, tighten, then reprime pump.	
	Loose intake suction	Tighten.	
	Fluid supply is low or empty	Refill supply container.	
Excessive hydraulic pump noise	Low hydraulic fluid level	Turn sprayer OFF. Add fluid*.	
Electric motor does not operate	Power switch is not ON	Turn power switch to ON.	
Licotho motor does not operate	Tripped circuit breaker	Check circuit breaker at power source.	
	Impled circuit breaker	Reset motor switch.	
*Check hydraulic fluid level often. Do not a	llow it to become too low. Use only Graco	approved hydraulic fluid.	

Notes

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Hydraulic Pump

(Figure 2)

Removal



Let hydraulic system cool before beginning service.

- 1. Relieve pressure, page 7.
- 2. Place drip pan or rags under sprayer to catch hydraulic oil that leaks out during repair.
- Remove drain plug (2) and oil filter (227) and allow hydraulic oil to drain.
- 4. Fig. 2. Disconnect suction tube (114).
- 5. Disconnect pump (111), page 15.
- 6. Remove screw (172), nut (173) and belt guard (117).
- 7. Raise motor and remove belt (44).
- 8. Remove two set screws (176) and fan pulley (96).
- 9. Remove case drain tube (225).
- 10.Remove elbow (221).
- 11.Remove tube (276) from elbow (226). Remove elbow (226) from hydraulic pump (220).
- 12.Remove eight screws (212) reservoir cover (209) filter assembly (206) and gasket (203).
- 13.Remove four screws (277) and hydraulic pump (220) from reservoir cover (209).

Installation

- 1. Install hydraulic pump (220) to reservoir cover (209) with four screws (277); torque 90-110 in-lb (10.1-12.4 N·m).
- 2. Install gasket (203) and reservoir cover (209) with eight screws (212); torque 110+/-5 in-lb (12.4 +/- 0.5 N·m).
- 3. Install elbow (226) in hydraulic pump (220). Install elbow (226) in tube (276). Torque to 25 ft-lb (33.9 N⋅m).
- 4. Install elbow (221); torque to 15 ft-lb (20.3 N·m).
- 5. Install case drain tube (225); torque to 15 ft-lb (20.3 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 pump (111), page 15.
- 10.Fig. 2. Connect suction tube (114).
- 11.Install drain plug (2); torque to 110 in-lb (12.4 N·m). Install oil filter (227); tighten 3/4 turn after gasket contacts base. Fill hydraulic pump with Graco hydraulic oil, page 6, through elbow (221) 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.

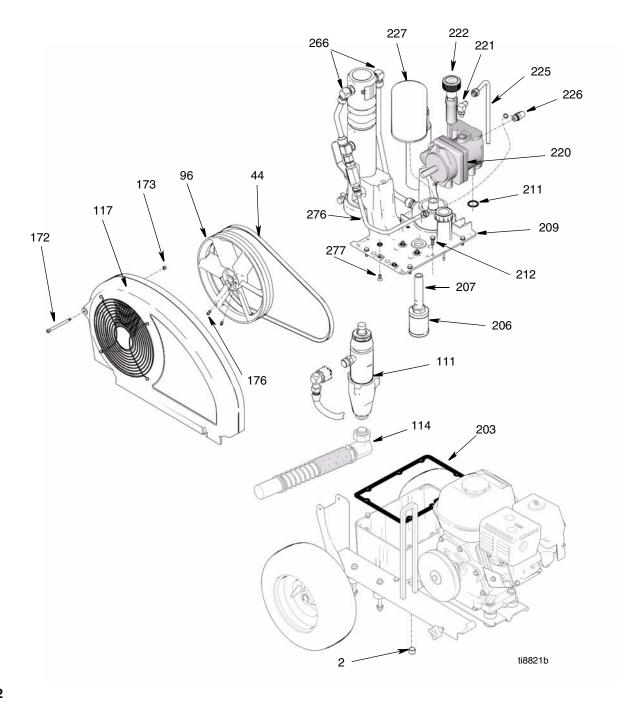


Fig. 2

Fan Belt

(Figure 3)

Removal







- 1. Relieve pressure, page 7.
- 2. Loosen belt guard knob (55).
- 3. Rotate belt guard (117) up.
- 4. Lift engine (119) up to remove tension on belt (44).
- 5. Remove belt from pulley (43) and fan pulley (96).

Installation

- 1. Thread belt (44) around drive pulley (43) and fan pulley
- 2. Let engine (119) down to put tension on belt.
- 3. Rotate belt guard (117) down.
- 4. Tighten belt guard knob (55).

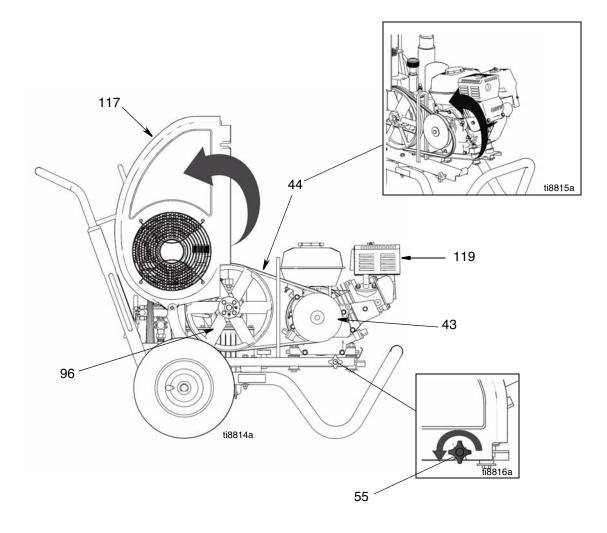


Fig. 3

Engine

(Figure 4)

Removal

NOTE: All service to the engine must be performed by an authorized HONDA dealer.











- 1. Relieve pressure, page 7.
- 2. Remove Fan Belt, page 10.
- 3. Loosen motor nut (205). Swing motor retainer bracket (204) out.
- 4. Remove engine (119) and rocker plate (99) from sprayer.
- 5. Remove four screws (23), washers (7) and nuts (24) and remove rocker plate (99), dampeners (153) and washers (154) from engine (119).

Installation

- 1. Install rocker plate (99), dampeners (153) and washers (154) on engine (119) with four screws (23), washers (7) and nuts (24); torque to 125 in-lb (14.1 N·m).
- 2. Install engine and rocker plate (99) on sprayer.
- 3. Swing motor retainer bracket (204) in. Tighten motor nut (205).
- 4. Install Fan Belt, page 10.

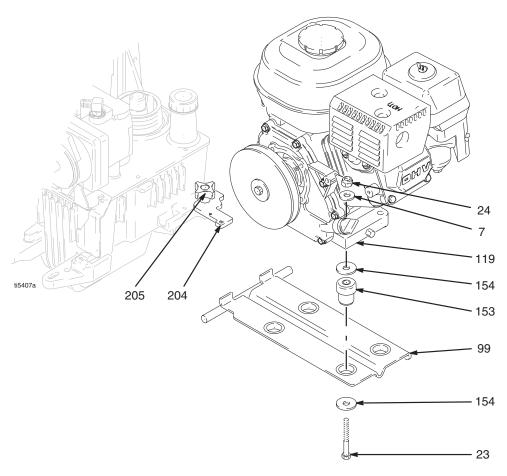


Fig. 4

Hydraulic Motor Rebuild

(Figure 5)

Removal









- 1. Relieve pressure, page 7.
- Place drip pan or rags under sprayer to catch hydraulic oil that leaks out during repair.

3. GH130 Models:

- Follow Steps 2-5 of pump removal instructions, page 17.

GH200, GH230, GH300 Models:

- Follow Steps 4-8 of pump removal instructions, page 18.
- 4. Remove hydraulic lines (271, 288) from fittings (266) at top left and right side of hydraulic motor.
- 5. Loosen jam nut (264).
- 6. Unscrew and remove hydraulic motor cap (265).
- 7. Slide piston rod/hydraulic motor cap assembly (A) from hydraulic motor cylinder (263).

A			

FLYING PARTS HAZARD

Detent spring has high energy potential. If detent spring is released without due care detent spring and balls could fly into the eyes of the disassembler. Wear safety glasses when removing or installing detent spring and balls. Failure to wear safety glasses when removing detent spring could result in eye injury or blindness.

Installation



- Slide piston rod assembly into hydraulic motor cylinder (263).
- 2. Screw down hydraulic motor cap (265). Unscrew hydraulic motor cap until inlet and outlet align with hydraulic line fittings and test hole in hydraulic motor cap points toward belt guard (117).
- 3. Torque jam nut (264) against hydraulic motor cap (265) to 150 ft-lb (17 $N \cdot m$).
- Fig. 5. Install hydraulic lines (271, 288) to fittings (266) to top left and right side of hydraulic motor; torque to 40 ft-lb (54.2 N·m).

5. GH130 Models:

- Follow Step 2 of pump installation instructions, page 17.

GH200, GH230, GH300 Models:

- Follow Steps 2-7 of pump installation instructions, page 19.
- 6. Start engine and operate pump for 30 seconds. Turn engine OFF. Check hydraulic oil level and fill with Graco hydraulic oil, page 6.

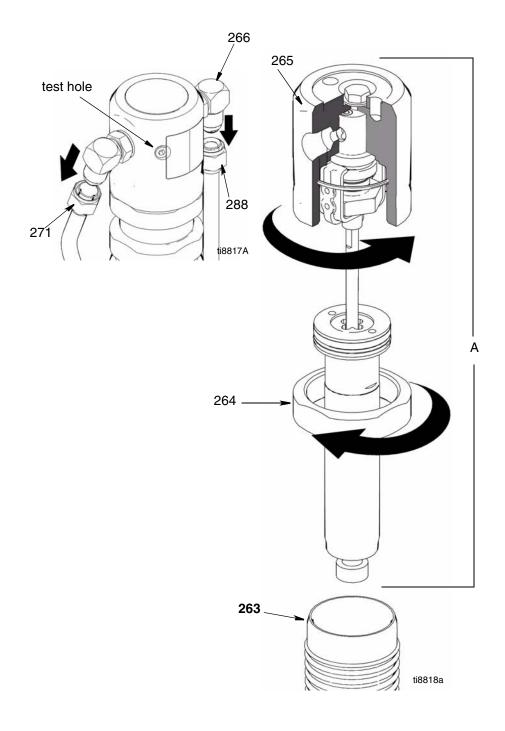
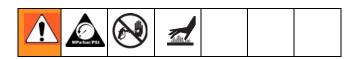


Fig. 5

Hydraulic Oil/Filter Change

(Figure 6)

Removal



- 1. Relieve pressure, page 7.
- 2. Place drip pan or rags under sprayer to catch hydraulic oil that drains out.
- 3. Remove drain plug (2). page 26. Allow hydraulic oil to drain.
- 4. Unscrew filter (227) slowly oil runs into groove and drains out rear.

Installation

- 1. Install drain plug (2) and oil filter (227). Tighten oil filter 3/4 turn after gasket contacts base.
- 2. Fill with five quarts of Graco hydraulic oil 169236 (5 gallon/20 liter) or 207428 (1 gallon/3.8 liter).
- 3. Check oil level.

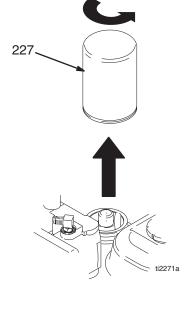


Fig. 6

Displacement Pump

GH130 Only (Figures 7-12)

See manual 311845 for pump repair instructions

Removal

- 1. Flush pump.
- 2. Relieve pressure, page 7.











3. (Fig. 7) Remove suction tube (114) and paint hose (63) (remove at swivel end).

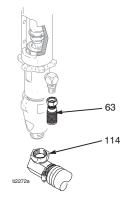


Fig. 7

4. (Fig. 8) Push retaining ring (120) up; push out pin (92).

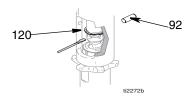


Fig. 8

5. (Fig. 9). Loosen jam nut (86). Unscrew pump (111).

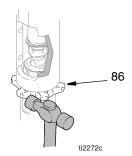
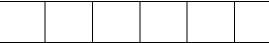


Fig. 9

Installation





If pin (92) works loose, parts could break off and project through the air, resulting in serious injury or property damage. Make sure pin is properly installed.

CAUTION

If the pump jam nut (86) loosens during operation, the threads of the bearing housing and drive train will be damaged. Tighten jam nut (86) as specified.

1. (Fig 10) Screw jam nut (86) to bottom of pump (111) threads. Screw pump (111) completely into manifold. Unscrew pump (111) from manifold until pump outlet aligns with hose. Hand tighten jam nut (86), then tap 1/8 to 1/4 turn with hammer or torque to 75 ft-lb (101 N·m).

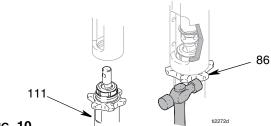


Fig. 10

2. (Fig. 11) Slowly pull engine starter rope until pump rod pin hole is aligned with hydraulic rod hole. Fig. 8. Push pin (92) into hole. Push retaining ring (120) into groove.

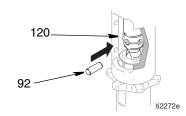


Fig. 11

3. (Fig. 12) Fill packing nut with Graco TSL.

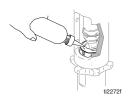


Fig. 12

Displacement Pump ProConnect

GH200/230/300 Only

(Figures 13-27)

See pump manual 311845 for pump repair.

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Removal









- 1. Flush pump.
- 2. Relieve pressure, page 7.
- 3. (Fig. 13) Remove suction hose (114).

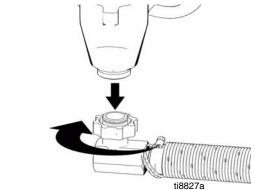


FIG. 13

4. (Fig. 14) Remove paint hose fitting (190) and paint hose (63) from pump fitting.

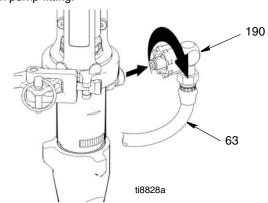


Fig. 14

5. (Fig. 15) Slide coupler cover (193) up to fully expose rod couplers (179).

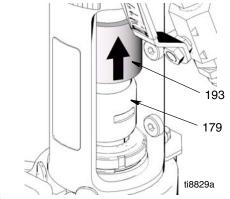
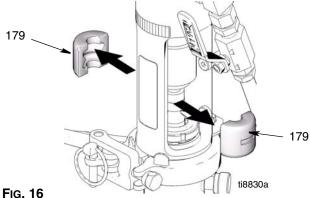


FIG. 15

6. (Fig. 16) Remove rod couplers (179).



7. (Fig 17) Remove pin.

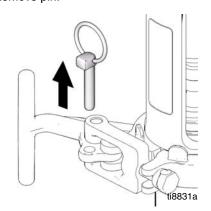


FIG. 17

CAUTION

Support pump with your hand before opening t-handle.

8. (Fig. 18) Open clamp (247).

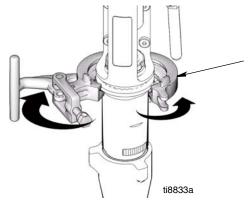
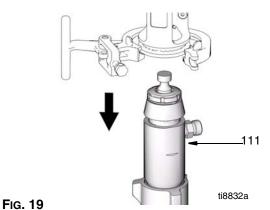


FIG. 18

9. (Fig. 19) Remove pump (111) from unit.



Installation

1. (Fig. 20) If needed, place pump rod in adjustment casting and pull pump to lengthen rod.

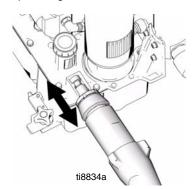


Fig. 20

2. (Fig. 21) Install pump (111) in sprayer.

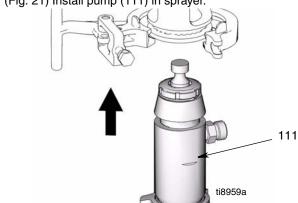


FIG. 21

3. (Fig. 22) Close clamp (247) around pump (111) and push it closed.

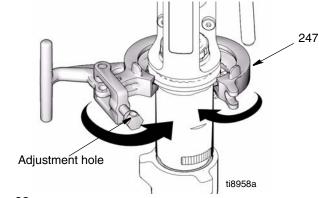


FIG. 22

NOTE: Closing force on T-handle can be adjusted if needed by inserting pin into adjustment hole and turning.

4. (Fig. 23) Install pin.

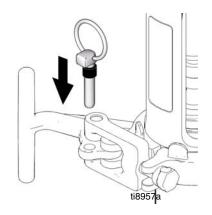


FIG. 23

5. (Fig. 24) Slide coupler cover (193) up to expose pump rod. Install rod couplers (179) over rod.

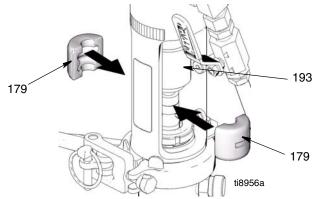


FIG. 24

6. (Fig. 25) Slide couple cover (193) down over rod couplers (179).

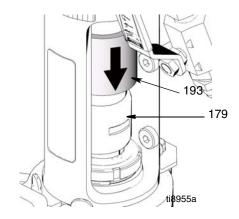


FIG. 25

7. (Fig. 26) Open clamp and align pump outlet with hose fitting (190). Install paint hose fitting (190) and paint hose (63) to pump connection, close clamp.

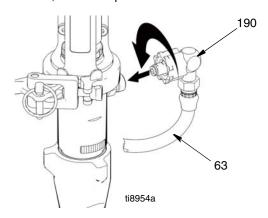


FIG. 26

8. (Fig. 27) Install suction hose (114) to bottom of pump (111).

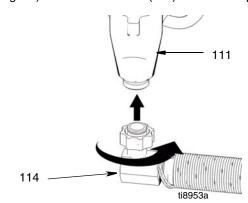
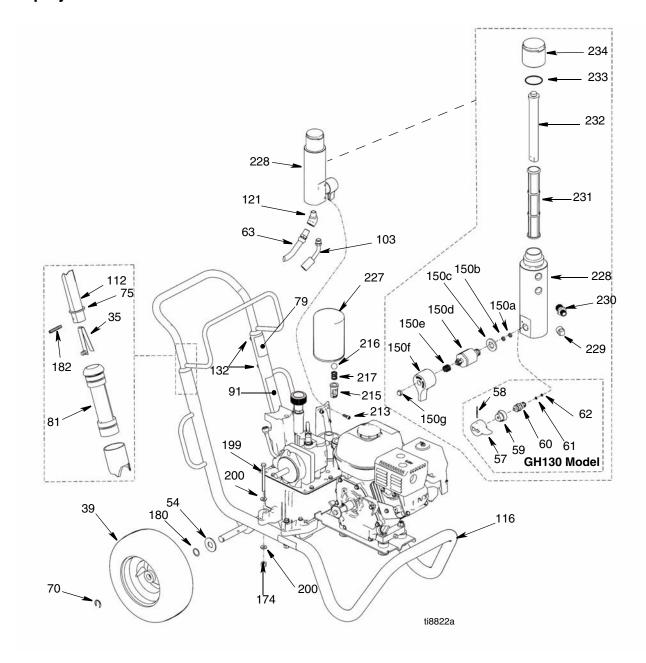


Fig. 27

Notes

Parts

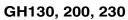
All Sprayers

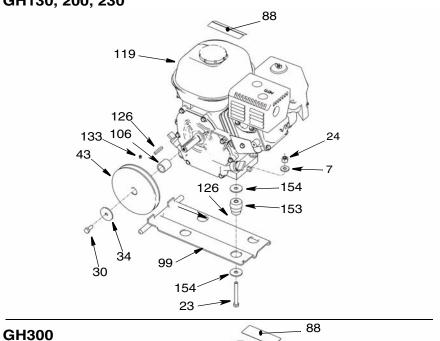


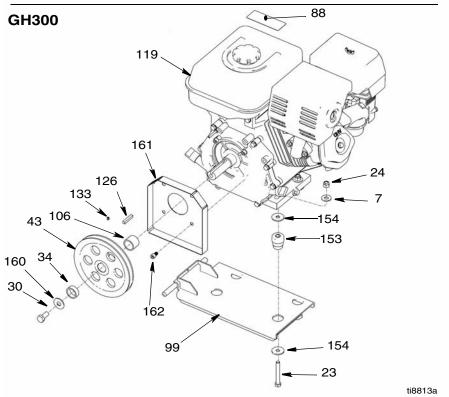
Parts List - All Sprayers

Ref	Part	Description	Qty	Ref	Part	Description	Qty
35	112827	BUTTON,snap	2	150d ★		VALVE, assembly	1
39	119420	WHEEL,pneumatic, GH130 & 200	2		114708		1
39	119420	WHEEI, pneumatic, GH230 & 300	2			HANDLE, valve	1
54		WASHER, flat, GH130 & 200	2 2	•	116424	NUT, cap, hex hd	1
54	111841	WASHER, plain, 5/8, GH230 & 300		174	110838	NUT,hex	2
57		HANDLE, GH130	1	180	116038	WASHER, wave spring, GH130 &	2
58		PIN, grooved, GH130	1			200	
59	224807	BASE, valve, GH130	1	182	101354	PIN,spring,straight, GH130 & 200	2
60		VALVE, replacement, kit, GH130	1		108068	PIN, spring, straight, GH230 & 300	2
61◆		SEAT, valve, GH130	1	199	803298	•	2
62◆		GASKET, seat, valve, GH130	1	200	100527	WASHER	4
63	243814	· · · · · · · · · · · · · · · · · · ·	1	213		SCREW	3
70	120211	CLIP,retaining, GH130 & 200	2	215	198841		1
70		CLIP, retaining, GH230 & 300		216	100084	, -	1
75		WASHER, GH130 & 200	2 2	217		SPRING,COMPRESSION	1
75	183350	WASHER, GH230, & 300	2	227		FILTER,OIL,SPIN ON	1
79▲		LABEL	1	228	15E599		1
81		SLEEVE,cart	2	229		PLUG,PIPE	1
91▲	194317	LABEL	1	230		ADAPTER	1
103	288732	HOSE,drain	1	231	244067	,	1
112		HANDLE,cart	1	232		TUBE, DIFFUSION	1
116	288169	FRAME,cart, GH130 & 200	i	233	117285	·	1
110		CART, frame, GH230 & 300	i	234	15C765	CAP,FILTER	1
121	116756	ELBOW	1				
132		SCREW,mach,pnh	4			Varning labels, are available at no co	st.
150		VALVE, drain, GH200, 230, 300	-	◆ Incl	uded in D	Prain Valve Replacement Kit 235014	
	193710		1			Prain Valve Replacement Kit 245103	
		SEAT, valve	i			•	
	114797		i				
		G/ 1011=1	•				

Parts Drawing - Engines

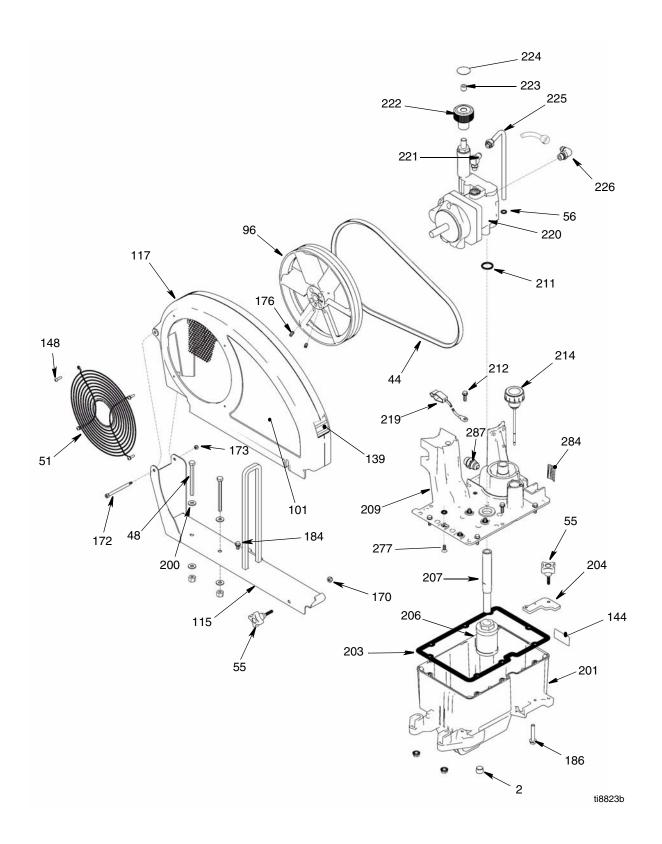






Def	Dout	Description	O+1.	Ref	Part	Description	Qty
Ref	Part		Qty		116298	ENGINE, gasoline, 6.5hp, Honda,	1
7	100023	WASHER, flat, GH130, 200 & 230	4			GH230	
00	100132	WASHER, flat, GH300	4		803900	ENGINE, gasoline, 9.0hp Honda,	1
23	113664	SCREW,cap,hex hd, GH130, 200 &	4			GH300	
	100010	230		126	117632	KEY,square,3/16 X 1.25, GH130,	1
0.4	106212	SCHREW, cap, hex hd, GH300	4			200 & 230	
24	110838	NUT,lock, GH130, 200 & 230	4		119484	KEY, parallel, square, GH300	1
20	101566	NUT, lock, GH300	4	133		SCREW,set,sch	1
30	108842	SCREW,cap,hex hd, GH130, 200 &	ı	153		DAMPENER, motor mount, GH130,	4
	110015	230	4			200 & 230	
24	116645		1		195515	DAMPENER, motor mount, GH300	4
34	112717 119438	WASHER, CH200	1	154	108851		8
43		WASHER, GH300 PULLEY,5.50 in, GH130, 200 & 230	1	160	15E764	SPACER, GH300	1
43		PULLEY, GH300	1	161	15E973	SHIELD, GH300	1
88▲		LABEL	1	162	C20010	SCREW, GH300	5
99	15F157	BRACKET, mounting, engine,	1				
33	131 137	GH130, 200 & 230	'	*Engir	ne Repair k	Kits:	
	155503	BRACKET, mounting, engine,	1		000070	4.0.110	
	132303	GH300	'		288678	4.0 HP	
106	15B21/	SLEEVE,motor shaft, GH130, 200	1		248943	5.5 HP	
100	130314	& 230	'		248944		
	155506		4		248945	9.0 HF	
110*		SLEEVE, motor shaft, GH300	1		Danger ar	nd Warning labels, are available at no	
119*	120590	ENGINE, gasoline, 4.0hp, Honda,	ı	cc	st.		
	900064	GH130	4				
	802264	ENGINE,gasoline, 5.5hp GH200	ı				

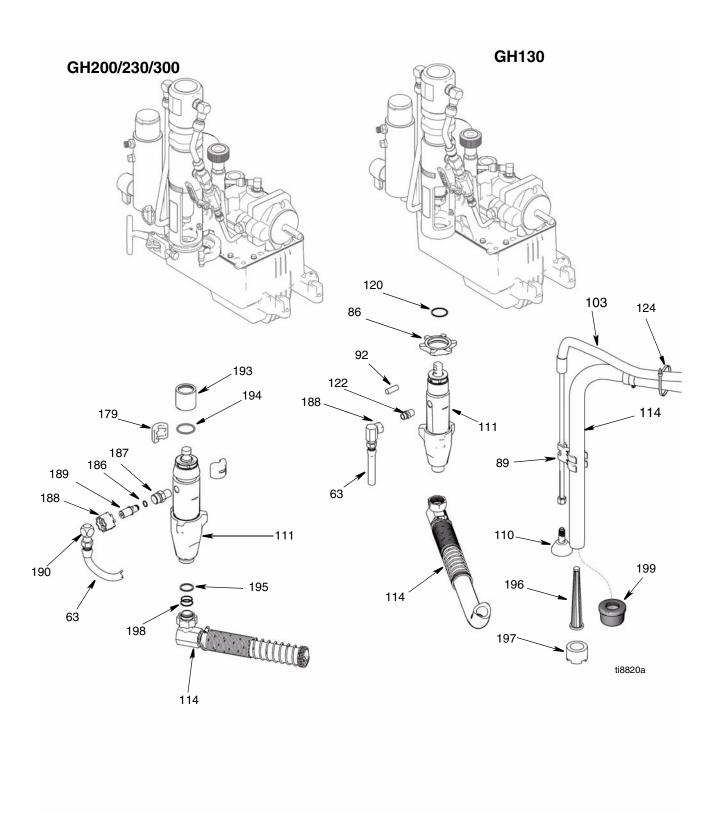
Parts Drawing - All Sprayers



Parts List - All Sprayers

				176	120087	SCREW, set, 1/4 X 1/2	2
Ref	Part	Description	Qty	184		SCREW, hex washer hd, thd form	1
2	101754	PLUG	1	186	120655	SCREW, mach, hex washer head	2
44	119433	BELT, GH130, 200, 230	1	200	100527	WASHER	2
	119432	BELT, GH300	1	201	15J513	TANK, reservoir	1
48	803298	SCREW, hex head	2	202	101754	PLUG, pipe	1
51		GRILL, fan guard	1	203	120604		1
55	15D862	NUT, hand	2	204		BRACKET, retainer, motor	1
56	154594	O-RING	1	206		FILTER	1
96		PULLEY, fan	1	207		TUBE, suction	1
99	15F157	BRACKET, mounting, engine,	1	208		PACKING, o-ring	1
		GH130, 200 & 230		209	15J363		1
	15E583	BRACKET, mounting, engine,	1	211		PACKING, o-ring	1
		GH300		212		SCREW	8
101▲	15K431	LABEL, GH130	1	214		CAP, breather, filler	1
	15K433	LABEL, GH200	1	219		WIRE, ground with clamp	1
	15K435	LABEL, GH230	1	220		PUMP, hydraulic, GH130	1
	15K437	LABEL, GH300	1			PUMP, hydraulic, GH200	
115	288261	RAIL, belt guard, assembly, GH130	1			PUMP, hydraulic, 230/300	
		& 200		221		FITTING, elbow, male, 90°	1
	288393	RAIL, belt guard, assembly, GH230	1	222		KNOB, pressure	1
		& 300		223		SCREW, set, socket head	1
117	288734	GUARD, belt assembly, painted,	1			LABEL, control	1
		GH130 & 200		225		TUBE, hydraulic, case drain	1
	248973	GUARD, belt, assembly, painted,	1	226		FITTING, elbow, with o-rings	1
		GH230 & 300		277		SCREW	4
139▲	198492		1		198585	LABEL	1
	15K440		•	287	120184	FITTING	1
148		SCREW, mach, torx pan hd	4			and the contract of the form of the following of the foll	
170		NUT, lock, hex	1		•	nd Warning labels, are available at no	
172	119434		1	CO	st.		
173	116969		1				
		- ,					

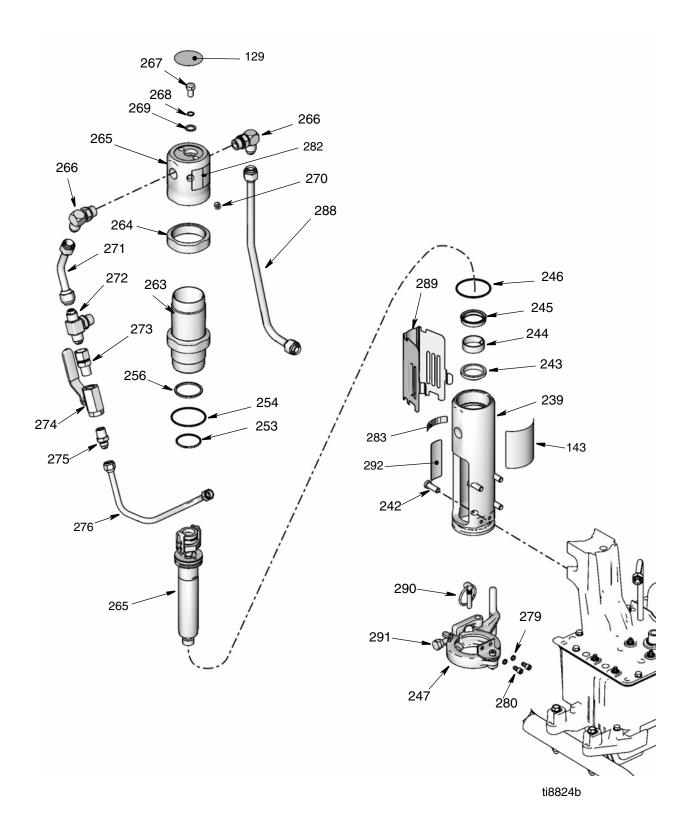
Parts Drawing - All Sprayers



Parts List - All Sprayers

				179	277377	COUPLER	2
Ref	Part	Description	Qty	186	107505	PACKING, o-ring	1
63	243814	HOSE, coupled	1	187	15J413	FITTING, pump, QD	1
86	193031	NUT, retaining, GH130	1	188	120583	NUT, hand	1
89	15D000	CLIP, drain line	1	189	15J410	FITTING, QD	1
92	15J141	PIN, pump, GH130	1	190	155699	FITTING, elbow, street	1
103	288732	KIT, drain hose	1	193	15H957	COVER, coupler	1
110	241920	DEFLECTOR, threaded	1	194	156698	PACKING, o-ring	1
111	288466	PUMP, kit, displacement, GH130	1	195	119566	WASHER, garden hose	1
	288467	PUMP, kit, displacement, GH200	1	196*	288472	INLET FILTER, 10 mesh, standard	1
	288468	PUMP, kit, displacement, GH230 &	1		289131	INLET FILTER, 16 mesh	1
		300		197≉	288480	NUT, strainer, inlet	1
114	288251	HOSE, suction, GH130	1	198	117559	O-RING	2
	288252	HOSE, suction, GH200, 230 & 300	1	199	189920	STRAINER	1
120	116551	RING, retaining, GH130	1	★ Incl	uded in A	ccessory Kit 288481 (10 mesh) or	
122	162485	ADAPTER, nipple, GH130	1	Acces	sory Kit 2	289132 (16 mesh)	
124	114958	STRAP, tie	4		-	· ,	

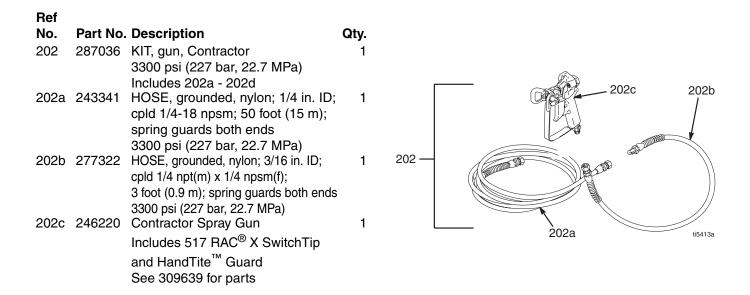
Parts Drawing - All Sprayers



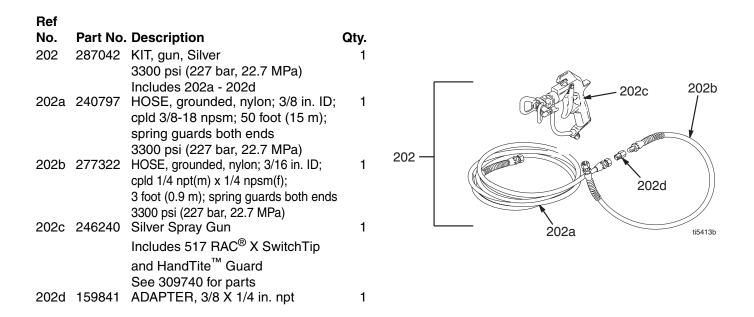
Parts List

Ref	Part	Description	Qty		15E596	TUBE, hydraulic, supply, GH230	1
				0704	4.47000	& 300	
	/15B063		1	272♦	117609	FITTING, tee, branch, str thd	1
143▲◆			1	273	117328	FITTING, nipple, straight	1
		LABEL, GH200	1	274	117441	VALVE, ball	1
		LABEL, GH230	1	275	116813	FITTING, nipple, hydraulic	1
000 4	15K436		1	276	15J819	TUBE, hydraulic, supply, GH130	1
239◆	15H953		l 4		15J846	TUBE, hydraulic, supply, GH200	1
	15J278		l a		15J864	TUBE, hydraulic, supply, GH230,	1
0.40.4	15J279		1			GH300	
242♦	15B564		4	279	105510	WASHER, lock, spring (hi-collar)	2
243‡◆	117739		1	280	101550	SCREW, cap, sch	2
244‡◆	112342		1		∕15B804		1
245‡◆	112561	PACKING, block	1	283▲◆			1
246‡◆	117283	, J	2	288		TUBE, hydraulic, return, GH130	1
247	288344		1		15J845	TUBE, hydraulic, return, GH200	1
•	108014	, J	1		15J863	TUBE, hydraulic, return, GH230	1
	178226		1			& 300	
	178207	* •	1	289	15J503	SHIELD, rod, model 255095 only	1
263◆	246176	SLEEVE, hydraulic cylinder, kit,	1	290	288741	KIT, repair, pin/spacer; GH 200,	1
		GH130 & 200				230, 300	
	248991	SLEEVE, hydraulic cylinder, kit,	1	291	15J417	BOLT, adjustment; GH 200, 230,	
		GH230 & 300)				300	
264◆	15A726	NUT, jam	1	292◆	15F584		1
265◆	288735	KIT, repair, trip rod, piston;	1	2021	101 00 1	2,1322	•
		GH130 only		▲ Dang	ar and Wa	arning labels, are available at no cost	ŀ
	288736	KIT, repair, trip rod, piston; GH	1	•		Iraulic Motor Repair Kit: 288758 -	•
		200 only			•	•	
	288737	KIT, repair, trip rod, piston; GH	1			59 - GH200; 288760 - GH230 & 300	
		230/300 only				Rod/Piston Kit: 288735 - GH130;	
266◆	117607	FITTING, elbow std thd	2			00; 288737 - GH230 & 300	
267✓◆	106276		1	‡ Includ	led in Sea	ll Kit 246174	
268√◆	155685	PACKING, o-ring	1				
269√◆	178179	WASHER, sealing	i				
270√♦	100139	PLUG, pipe	i				
271♦	198629	TUBE, hydraulic, supply, GH130	1				
 ···		& 200	•				

GH 130 & 200 Sprayers with Spray Gun and Hoses



GH 230 & 300 Sprayers with Spray Gun and Hoses



Technical Data

Sprayer	Fluid Pressure psi (bar)	Hydraulic Reservoir Capacity Gallons (Liters)	Maximum Hydraulic Pressure psi (bar)	Engine HP (kW)	Maximum Delivery gpm (lpm)	Maximum	Fluid Inlet in.	Fluid O	utlet in.
								npsm(m)	npt(f)
GH 130	3300 (227)	1.25 (4.75)	1510 (104)	4.0	1.30 (5.9)	0.037	1 npsm(m)	3/8	3/8
GH 200	3300 (227)	1.25 (4.75)	1855 (128)	5.5	2.15 (9.8)	0.047	1 npsm(m)	3/8	3/8
GH 230	3300 (227)	1.25 (4.75)	1855 (128)	6.5	2.35 (10.7)	0.053	1 npsm(m)	3/8	3/8
GH 300	3300 (227)	1.25 (4.75)	1855 (128)	9.0	3.0 (11.4)	0.057	1 npsm(m)	3/8	3/8

Basic Sprayer Wetted Parts:

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

Sound Levels*

Engine	Sound Pressure dB(A)	Sound Power dB(A)				
4.0 hp	88	103				
5.5 hp	96	110				
6.5	96	110				
9.0	96	110				
*Measured at maximum normal load conditions (gas only).						

Dimensions

Sprayer	Weight lb (kg)	Width in. (cm)	Length in. (cm)
GH 130	155 (70.3)	24 (61)	41 (104.1)
GH 200	160 (73.4)	24 (61)	41 (104.1)
GH 230	168 (75.6)	24 (61)	48 (121.92)
GH300	195 (87.8)	24 (61)	48 (121.92)

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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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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.

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

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This manual contains English. MM 311797

Graco Headquarters: Minneapolis

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