

# GH<sup>™</sup>130, GH200, GH230, GH300 Hydraulic Sprayers and OEM Kits

311797R

ΕN

### - Use with Architectural Coatings and Paints -For professional use only. Not approved for use in explosive atmosphere locations

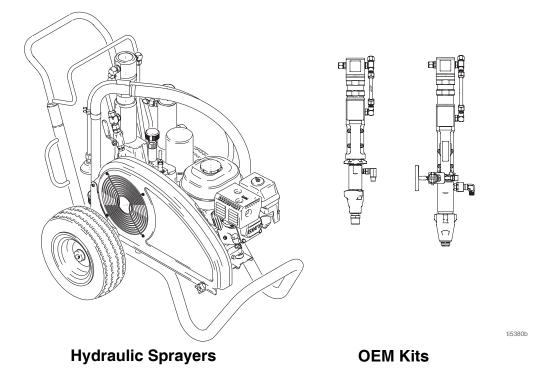
3300 psi (2.8 MPa, 228 bar) Maximum Working Pressure

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.



# **Sprayer Models**

|        | GH130 | GH200 | GH230 | GH300 | 120 Vac<br>60 Hz | ETL/CSA/UL<br>120 Vac<br>60 Hz |          |
|--------|-------|-------|-------|-------|------------------|--------------------------------|----------|
| 253957 | ~     |       |       |       |                  |                                | <b>v</b> |
| 253959 | ~     |       |       |       | ~                |                                | ~        |
| 253980 | ~     |       |       |       |                  | ~                              | ~        |
| 253962 |       | ~     |       |       |                  |                                | ~        |
| 253963 |       | ~     |       |       | ~                |                                | ~        |
| 253981 |       | ~     |       |       |                  | ~                              | ~        |
| 255095 |       | ~     |       |       |                  |                                | ~        |
| 253965 |       |       | ~     |       |                  |                                | ~        |
| 253966 |       |       | ~     |       | ~                |                                | ~        |
| 253982 |       |       | ~     |       |                  | ~                              | ~        |
| 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                |

## **OEM Kits**

| Kit Number | OEM Model     | Description   |
|------------|---------------|---|
| 24W297     | GH130 OEM     | 3300 psi (22.8 MPa, 227 bar) Maximum Working Pressure<br>(Material Working psi) |
| 24W298     | GH200 OEM     | 3300 psi (22.8 MPa, 227 bar) Maximum Working Pressure<br>(Material Working psi) |
| 24W299     | GH230/300 OEM | 3300 psi (22.8 MPa, 227 bar) Maximum Working Pressure<br>(Material Working psi) |

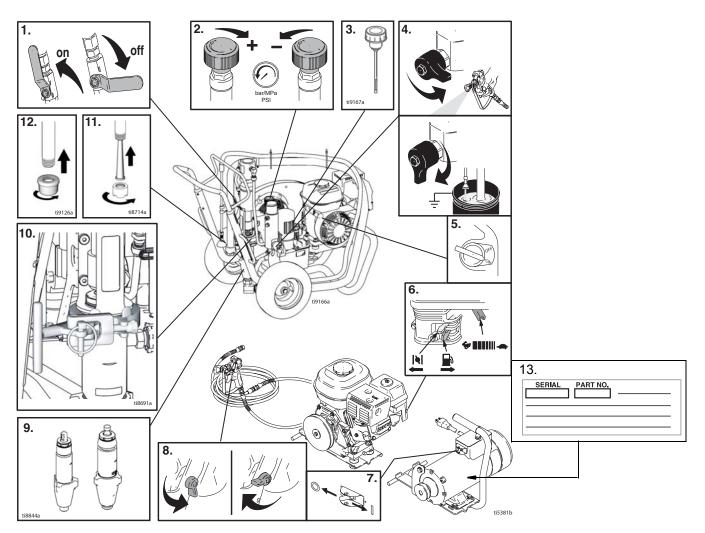
# Warnings

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

|                | <b>AWARNING</b>  |
|----------------|--|
| NLZ            | FIRE AND EXPLOSION HAZARD  |
|                | Flammable fumes, such as solvent and paint fumes, in <b>work area</b> 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).   |
|                | <ul> <li>Keep work area free of debris, including solvent, rags and gasoline.</li> </ul>   |
|                | <ul> <li>Do not plug or unplug power cords, or turn power or light switches on or off when flammable fumes are present.</li> </ul>   |
|                | Ground all equipment in the work area. See Grounding instructions.   |
|                | Use only grounded hoses.   |
|                | <ul> <li>Hold gun firmly to side of grounded pail when triggering into pail.</li> </ul>  |
|                | <ul> <li>If there is static sparking or you feel a shock, stop operation immediately. Do not use equipment until you identify and correct the problem.</li> </ul>  |
|                | 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. <b>Get immediate surgical treatment.</b> |
| $(\mathbf{k})$ | 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.  |
|                | <ul> <li>Do not spray without tip guard and trigger guard installed.</li> </ul>  |
|                | Engage trigger lock when not spraying.   |
|                | <ul> <li>Follow Pressure Relief Procedure in this manual, when you stop spraying and before cleaning,<br/>checking, or servicing equipment.</li> </ul>   |
|                | ELECTRIC SHOCK HAZARD  |
| [4]            | Improper grounding, setup, or usage of the system can cause electric shock.  |
| 2m             | Turn off and disconnect power cord before servicing equipment.   |
|                | Use only grounded electrical outlets.  |
|                | Use only 3-wire extension cords.   |
|                | <ul> <li>Ensure ground prongs are intact on sprayer and extension cords.</li> </ul>  |
|                | Do not expose to rain. Store indoors.  |

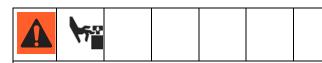
|          | <b>AWARNING</b>  |
|----------|--|
| Len      | MOVING PARTS HAZARD  |
|          | Moving parts can pinch or amputate fingers and other body parts.   |
|          | Keep clear of moving parts.  |
|          | Do not operate equipment with protective guards or covers removed.   |
|          | • Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, follow the <b>Pressure Relief Procedure</b> in this manual. Disconnect power or air supply.  |
| $\wedge$ | 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.  |
| 1        | 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.   |
|          | <ul> <li>Read MSDS's to know the specific hazards of the fluids you are using.</li> </ul>  |
|          | • Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines.  |
|          | BURN HAZARD  |
| Tatin La | 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   |
|          | CALIFORNIA PROPOSITION 65  |
|          | This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. Wash hands after handling.  |

# **Component Identification**



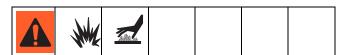
| Item No. | Component                    |
|----------|------------------------------|
| 1        | Hydraulic pump valve         |
| 2        | Pressure control             |
| 3        | Hydraulic Oil Cap            |
| 4        | Drain valve                  |
| 5        | Engine ON/OFF switch   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

# **General Repair Information**



To reduce risk of serious injury, do not touch moving parts with fingers or tools while testing repair. Shut 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.

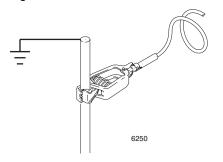
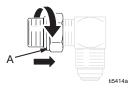


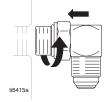
FIG. 1

## **SAE O-Ring Installation**

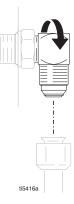
- 1 Unscrew lock nut to touch fitting.
- 2 Lubricate o-ring (A).



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**

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 engine ON/OFF switch to OFF. Close the bleed-type master air valve.
- 3 Disengage the trigger lock.
- 4 Hold a metal part of the gun firmly to a grounded metal pail. Trigger the gun to relieve pressure.
- 5 Engage the trigger lock.
- 6 Open all fluid drain valves in the system, having a waste container ready to catch drainage. Leave drain valve(s) open until you are ready to spray again.
- 7 If you suspect the spray tip or hose is clogged or that pressure has not been fully relieved:

a. VERY SLOWLY loosen tip guard retaining nut or hose end coupling to relieve pressure gradually.

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

### NOTICE

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 clockwise 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.<br>4.0 hp - 288678 / 5.5 hp - 248943 /<br>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) 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*.  |
|   | 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.<br>Turn engine OFF. Pry rod up or down until<br>hydraulic motor shifts . |
| Displacement pump operates, but output is low on upstroke                 | Piston ball check not seating properly                        | Service piston ball check. See manual 311845.  |
|   | Piston packings worn or damaged                               | Replace packings. See manual 311845.   |
| Displacement pump operates but output is low on downstroke and/or on both | Piston packings worn or damaged                               | Tighten packing nut or replace packings.<br>See manual 311845.   |
| strokes   | Intake valve ball check not seating<br>properly               | Service intake valve ball check. See man-<br>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.   |
|   | Displacement pump outlet filter (if used) is dirty or clogged | Clean filter.  |
|   | 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 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.   |
|   |   | Check circuit breaker at power source.   |

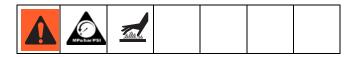
# Notes

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# **Hydraulic Pump**

(Figure 2)

## Removal

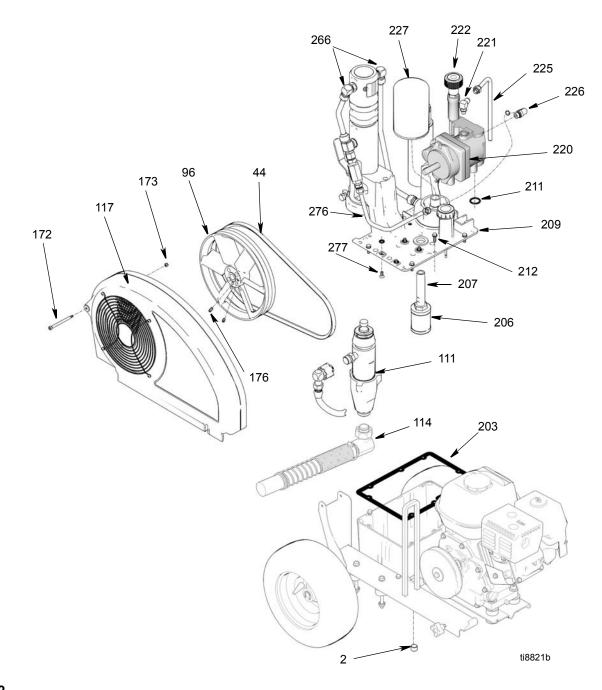


Let hydraulic system cool before beginning service.

- 1 Relieve pressure, page 7.
- 2 Place drip pan or rags under sprayer to catch hydraulic oil that leaks out during repair.
- 3 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.

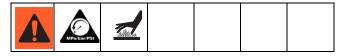




# **Fan Belt**

(Figure 3)

### Removal



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

### Installation

- Thread belt (44) around drive pulley (43) and fan pulley 1 (96).
- 2 Let engine (119) down to put tension on belt.
- 3 Rotate belt guard (117) down.
- 4 Tighten belt guard knob (55).

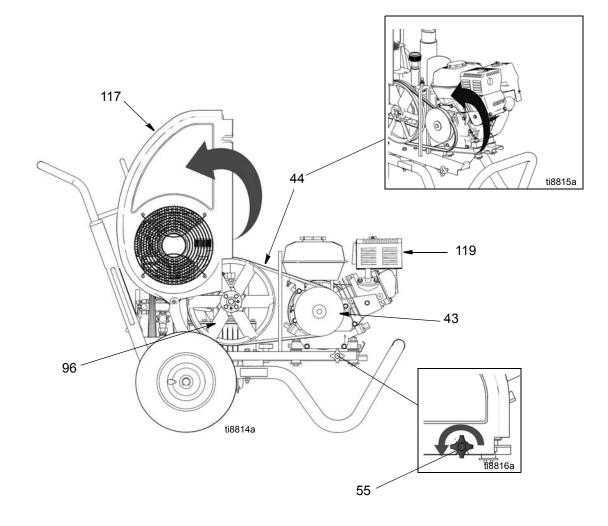


FIG. 3

# 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

- 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.

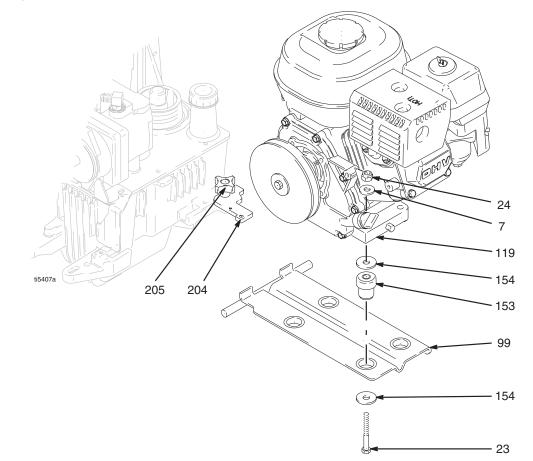


FIG. 4

# **Hydraulic Motor Rebuild**

(Figure 5)

### Removal



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

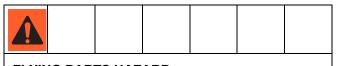
- 4 Remove hydraulic lines (271, 288) from fittings (266) at top left and right side of hydraulic motor.
- 5 Loosen jam nut (264).
- 6 Unscrew and remove hydraulic motor cap (265).
- 7 Slide piston rod/hydraulic motor cap assembly (A) from hydraulic motor cylinder (263).

|--|--|

### **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



### FLYING PARTS HAZARD

- 1 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•m).
- 4 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.

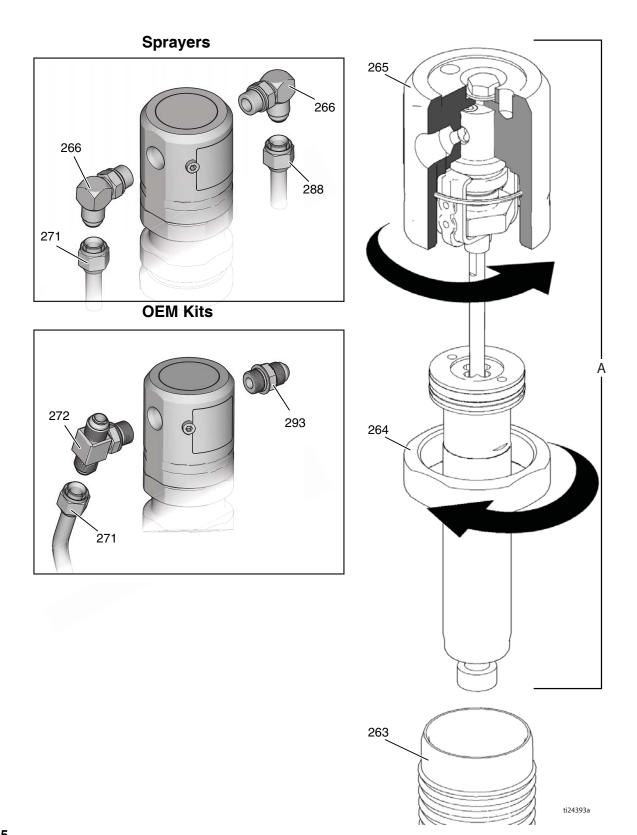


FIG. 5

# 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.

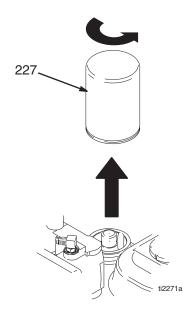


FIG. 6

# **Displacement Pump**

GH130 Only (Figures 7-12)

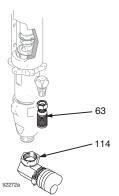
See manual 311845 for pump repair instructions

### Removal

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

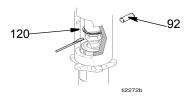


3 (Fig. 7) Remove suction tube (114) and paint hose (63) (remove at swivel end).



### 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).

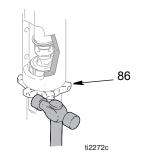
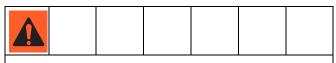


Fig. 9

## Installation

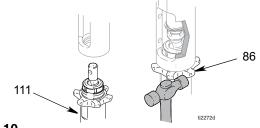


If pin (92) works loose, parts could break off and project through the air, resulting in serious injury or property damage. Make sure pin is properly installed.

### CAUTION

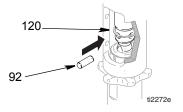
If the pump jam nut (86) loosens during operation, the threads of the bearing housing and drive train will be damaged. Tighten jam nut (86) as specified.

 (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.





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





# **Displacement Pump ProConnect**

GH200/230/300 Only

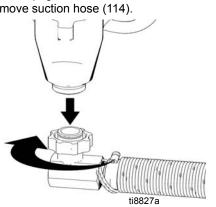
### (Figures 13-27)

See pump manual 311845 for pump repair.

## Removal



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





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

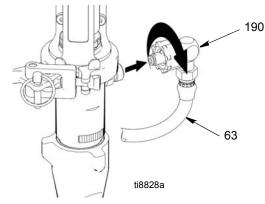


FIG. 14

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

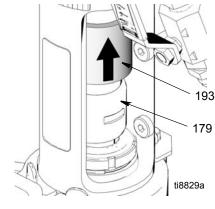
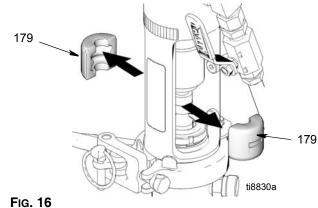
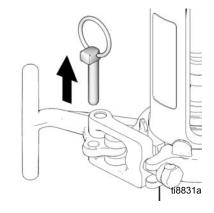


FIG. 15

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

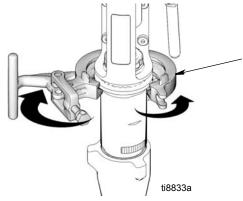


7 (Fig 17) Remove pin.



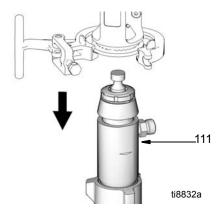
### CAUTION Support pump with your hand before opening t-handle.

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



### Fig. 18

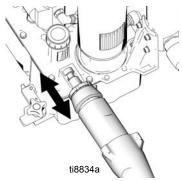
9 (Fig. 19) Remove pump (111) from unit.





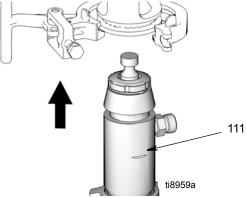
### Installation

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



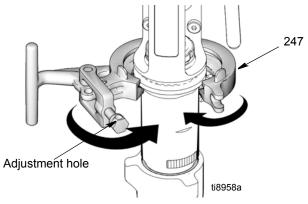
#### FIG. 20

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





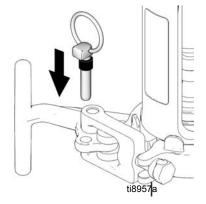
3 (Fig. 22) Close clamp (247) around pump (111) and push it closed.





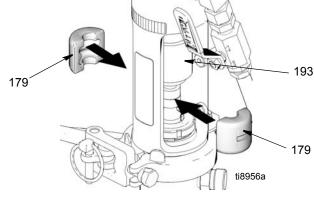
NOTE: Closing force on T-handle can be adjusted if needed by inserting pin into adjustment hole and turning.

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).

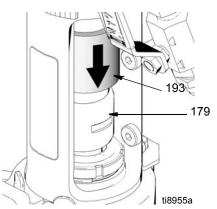
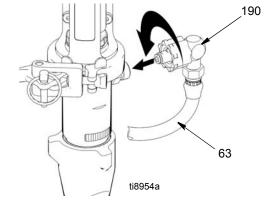


FIG. 25

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).

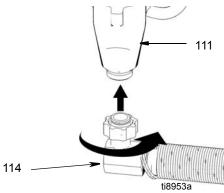
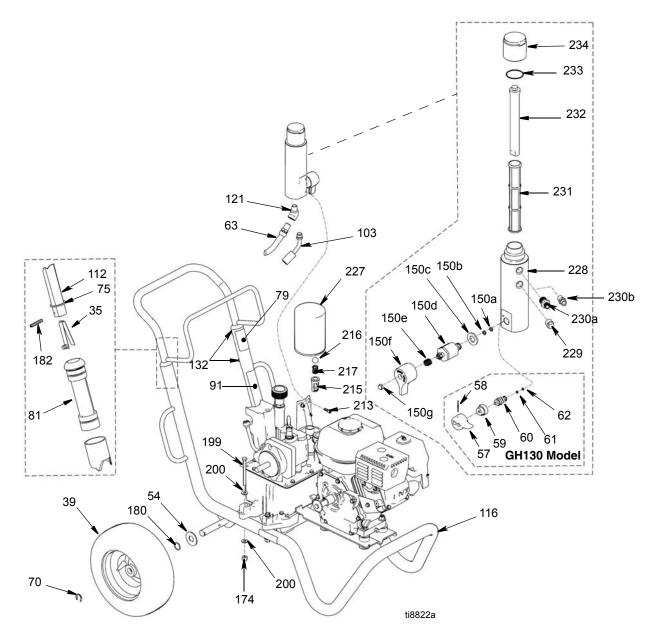


FIG. 27

# Notes

**Parts** 

## **All Sprayers**



## **Parts List - All Sprayers**

|                   |        |                                    | Qty |
|-------------------|--------|------------------------------------|-----|
| Ref.              | Part   | Description                        | •   |
| 35                | 112827 | BUTTON, snap                       | 2   |
| 39                | 119420 | WHEEL, pneumatic, GH130 & 200      | 2   |
|                   | 119408 | WHEEI, pneumatic, GH230 & 300      | 2   |
| 54                | 156306 | WASHER, flat, GH130 & 200          | 2   |
|                   | 111841 | WASHER, plain, 5/8, GH230 & 300    | 2   |
| 57                | 15C780 | HANDLE, GH130                      | 1   |
| 58                | 15C972 | PIN, grooved, GH130                | 1   |
| 59                | 224807 | BASE, valve, GH130                 | 1   |
| 60                | 235014 | VALVE, replacement, kit, GH130     | 1   |
| 61♦               | 15E022 | SEAT, valve, GH130                 | 1   |
| 62�               | 277364 | GASKET, seat, valve, GH130         | 1   |
| 63                | 243814 | HOSE                               | 1   |
| 70                | 120211 | CLIP, retaining, GH130 & 200       | 2   |
|                   | 15B563 | CLIP, retaining, GH230 & 300       | 2   |
| 75                | 15J645 | WASHER, GH130 & 200                | 2   |
|                   | 183350 | WASHER, GH230, & 300               | 2   |
| 79▲               | 189246 | LABEL                              | 1   |
| 81                | 192027 | SLEEVE, cart                       | 2   |
| 91▲               | 194317 | LABEL                              | 1   |
| 103               | 288732 | HOSE, drain                        | 1   |
| 112               | 24M397 | HANDLE, cart                       | 1   |
| 116               | 288169 | FRAME, cart, GH130 & 200           | 1   |
|                   | 248815 | CART, frame, GH230 & 300           | 1   |
| 121               | 116756 | ELBOW                              | 1   |
| 132               | 109032 | SCREW, mach, pnh                   | 4   |
| 150‡              | 245103 | VALVE, drain, GH200, 230, 300      |     |
| 150a+             | 193710 | SEAL, valve                        | 1   |
| 150b              | 193709 | SEAT, valve                        | 1   |
| 150c <del>/</del> | 114797 | GASKET                             | 1   |
| 150d7             | ł      | VALVE, assembly                    | 1   |
| 150e+             | 114708 | SPRING, compression                | 1   |
| 150f★             | 15G563 | HANDLE, valve                      | 1   |
| 150g+             | 116424 | NUT, cap, hex hd                   | 1   |
| 174               | 110838 | NUT, hex                           | 2   |
| 180               | 116038 | WASHER, wave spring, GH130 & 200   | 2   |
| 182               | 101354 | PIN, spring, straight, GH130 & 200 | 2   |
|                   | 108068 | PIN, spring, straight, GH230 & 300 | 2   |
| 199               | 803298 | SCREW, hex head, GH130 &200        | 2   |
|                   | 867539 | SCREW,hex head, GH230 & 300        | 2   |
| 200               | 100527 | WASHER                             | 4   |
| 213               | 119426 | SCREW                              | 3   |
| 215               | 198841 | RETAINER                           | 1   |
| 216               | 100084 | BALL, metallic                     | 1   |
| 217               | 116967 | SPRING, compression                | 1   |
| 227               | 246173 | FILTER, oil, spin on               | 1   |
| 228‡              | 15E599 | HOUSING                            | 1   |
| 229‡              | 100040 | PLUG, pipe                         | 1   |
| 230a              | 164672 | ADAPTER (GH 130, 200) 1/4 npsm     | 1   |
|                   |        | (m) hose connection                |     |
|                   |        |                                    |     |

| Ref. Part           | Description   | Qty |
|---------------------|---|-----|
| 230b‡ 162485        | ADAPTER (GH 230, 300) 3/8 npsm<br>(m) hose connection | 1   |
| 231‡ 244067         | FILTER, fluid   | 1   |
| 232 <b>‡</b> 15C766 | TUBE, diffusion                                       | 1   |
| 233‡ 117285         | PACKING, o-ring                                       | 1   |
| 234‡ 15C765         | CAP, filter   | 1   |

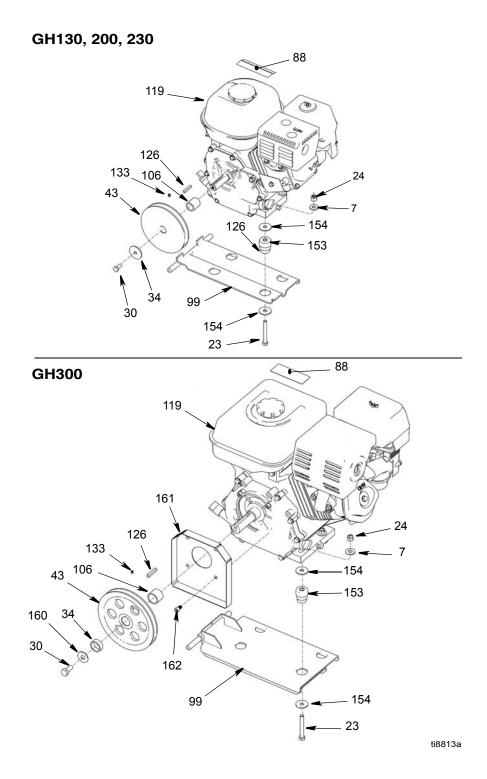
▲ Danger and Warning labels, are available at no cost.

◆ Included in Drain Valve Replacement Kit 235014

★ Included in Drain Valve Replacement Kit 245103

‡ Included in Filter Replacement Kit 24W753

## Parts Drawing - Engines



## Parts List - Engines

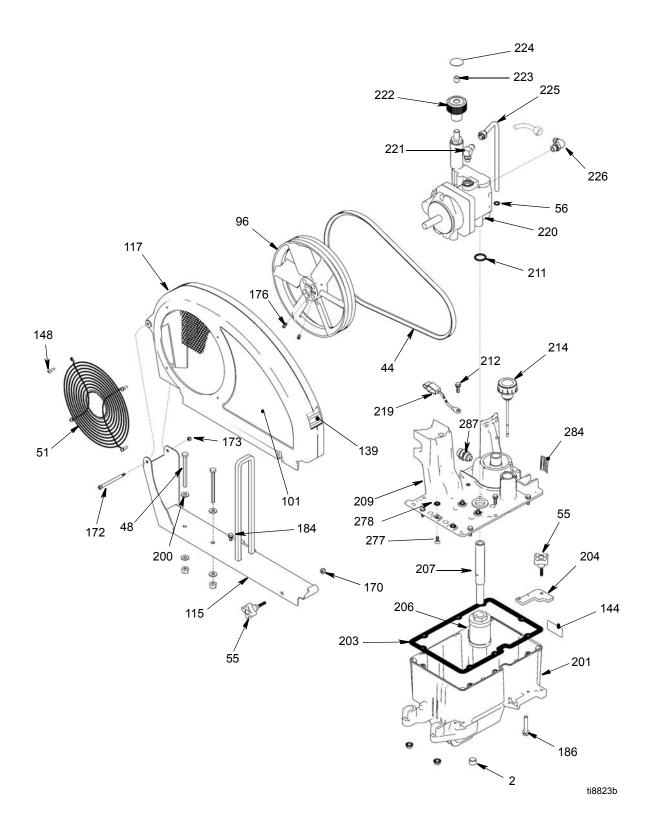
| Ref. | Part   | Description                                   |  |
|------|--------|---|--|
| 7    | 100023 | WASHER, flat, GH130, 200 & 230                |  |
|      | 100132 | WASHER, flat, GH300                           |  |
| 23   | 113664 | SCREW, cap, hex hd, GH130, 200 & 230          |  |
|      | 106212 | SCHREW, cap, hex hd, GH300                    |  |
| 24   | 110838 | NUT, lock, GH130, 200 & 230                   |  |
|      | 101566 | NUT, lock, GH300                              |  |
| 30   | 108842 | SCREW, cap, hex hd, GH130, 200 & 230          |  |
|      | 116645 | SCREW, cap, hex hd, GH300                     |  |
| 34   | 112717 | WASHER, GH130, 200 & 230                      |  |
|      | 119438 | WASHER, GH300                                 |  |
| 43   | 116908 | PULLEY, 5.50 in, GH130, 200 & 230             |  |
|      | 119401 | PULLEY, GH300                                 |  |
| 88▲  | 194126 | LABEL   |  |
| 99   | 15F157 | BRACKET, mounting, engine, GH130, 200 & 230   |  |
|      | 15E583 | BRACKET, mounting, engine, GH300              |  |
| 106  | 15B314 | SLEEVE, motor shaft, GH130, 200 & 230         |  |
|      | 15E586 | SLEEVE, motor shaft, GH300                    |  |
| 119* | 120590 | ENGINE, gasoline, 120 cc, Honda,<br>GH130     |  |
|      | 802264 | ENGINE, gasoline, 160 cc, GH200               |  |
|      | 116298 | ENGINE, gasoline, 200 cc, Honda, GH230        |  |
|      | 803900 | ENGINE, gasoline, 270 cc, Honda, GH300        |  |
| 126  | 117632 | KEY, square, 3/16 X 1.25, GH130, 200<br>& 230 |  |
|      | 119484 | KEY, parallel, square, GH300                  |  |
| 133  | 100002 | SCREW, set, sch                               |  |
| 153  | 15E888 | DAMPENER, motor mount, GH130, 200 & 230       |  |
|      | 195515 | DAMPENER, motor mount, GH300                  |  |
| 154  | 108851 | WASHER, plain                                 |  |
| 160  | 15E764 | SPACER, GH300                                 |  |
| 161  | 15E973 | SHIELD, GH300                                 |  |
| 162  | C20010 | SCREW, GH300                                  |  |
|      |        |   |  |

| Qty |  |
|-----|--|
| -   |  |

| *Engine Repair Kit | ts:             |
|--------------------|-----------------|
| 288678             | 120 cc (4.0 HP) |
| 248943             | 160 cc (5.5 HP) |
| 248944             | 200 cc (6.5 HP) |
| 248945             | 270 cc (9.0 HP) |
|                    |                 |

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

## Parts Drawing - All Sprayers



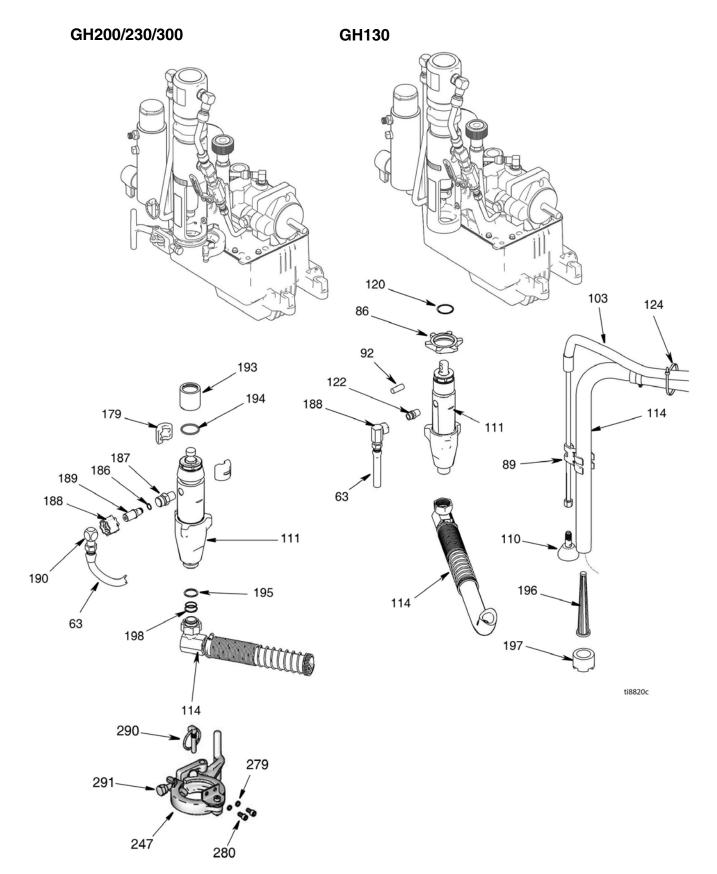
## Parts List - All Sprayers

|         |        |   | Qty |
|---------|--------|---|-----|
| Ref.    | Part   | Description                                 |     |
| 2       | 101754 | PLUG  | 1   |
| _<br>44 | 119433 | BELT, GH130, 200, 230                       | 1   |
|         | 119432 | BELT, GH300                                 | 1   |
| 48      | 803298 | SCREW, hex head GH130 & 200                 | 2   |
|         | 867539 | SCREW, hex head GH230 & 300                 | 2   |
| 51      | 117284 | GRILL, fan guard                            | 1   |
| 55      | 15D862 | NUT, hand                                   | 2   |
| 56      | 154594 | O-RING                                      | 1   |
| 96      | 15E410 | PULLEY, fan                                 | 1   |
| 99      | 15F157 | BRACKET, mounting, engine, GH130, 200 & 230 | 1   |
|         | 15E583 | BRACKET, mounting, engine, GH300            | 1   |
| 101▲    | 15K431 | LABEL, GH130                                | 1   |
|         | 15K433 | LABEL, GH200                                | 1   |
|         | 15K435 | LABEL, GH230                                | 1   |
|         | 15K437 | LABEL, GH300                                | 1   |
| 115     | 288261 | RAIL, belt guard, assembly, GH130 & 200     | 1   |
|         | 288393 | RAIL, belt guard, assembly, GH230 & 300     | 1   |
| 117     | 288734 | GUARD, belt assembly, painted, GH130 & 200  | 1   |
|         | 248973 | GUARD, belt, assembly, painted, GH230 & 300 | 1   |
| 139▲    | 198492 | LABEL                                       | 1   |
| 144▲    | 15K440 | LABEL                                       |     |
| 148     | 115477 | SCREW, mach, torx pan hd                    | 4   |
| 170     | 102040 | NUT, lock, hex                              | 1   |
| 172     | 119434 | SCREW, shoulder, socket head                | 1   |
| 173     | 116969 | NUT, lock                                   | 1   |
| 176     | 120087 | SCREW, set, 1/4 X 1/2                       | 2   |
| 184     | 260212 | SCREW, hex washer hd, thd form              | 1   |
| 186     | 120655 | SCREW, mach, hex washer head, GH130 & 200   | 2   |
|         | 17D142 | SCREW,mach, hex washer head,<br>GH230 & 300 | 2   |
| 200     | 100527 | WASHER                                      | 2   |
| 201     | 15J513 | TANK, reservoir                             | 1   |
| 202     | 101754 | PLUG, pipe                                  | 1   |
| 203     | 120604 | GASKET, reservoir                           | 1   |
| 204     | 15E476 | BRACKET, retainer, motor                    | 1   |
| 206     | 116919 | FILTER                                      | 1   |
| 207     | 15E587 | TUBE, suction                               | 1   |
| 208     | 154594 | PACKING, o-ring                             | 1   |
| 209     | 15J363 | COVER, reservoir                            | 1   |
| 211     | 156401 | PACKING, o-ring                             | 1   |
| 212     | 119426 | SCREW                                       | 8   |
| 214     | 120726 | CAP, breather, filler                       | 1   |
| 219     | 237686 | WIRE, ground with clamp                     | 1   |

| 220  | 288733 | PUMP, hydraulic, GH130       | 1 |
|------|--------|------------------------------|---|
|      | 246178 | PUMP, hydraulic, GH200       |   |
|      | 249003 | PUMP, hydraulic, 230/300     |   |
| 221  | 110792 | FITTING, elbow, male, 90°    | 1 |
| 222  | 15B438 | KNOB, pressure               | 1 |
| 223  | 117560 | SCREW, set, socket head      | 1 |
| 224▲ | 15A464 | LABEL, control               | 1 |
| 225  | 246167 | TUBE, hydraulic, case drain  | 1 |
| 226  | 116829 | FITTING, elbow, with o-rings | 1 |
| 277  | 117471 | SCREW                        | 4 |
| 278  | 107188 | PACKING, o-rings             | 4 |
| 284▲ | 198585 | LABEL                        | 1 |
| 287  | 120184 | FITTING                      | 1 |
|      |        |                              |   |

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

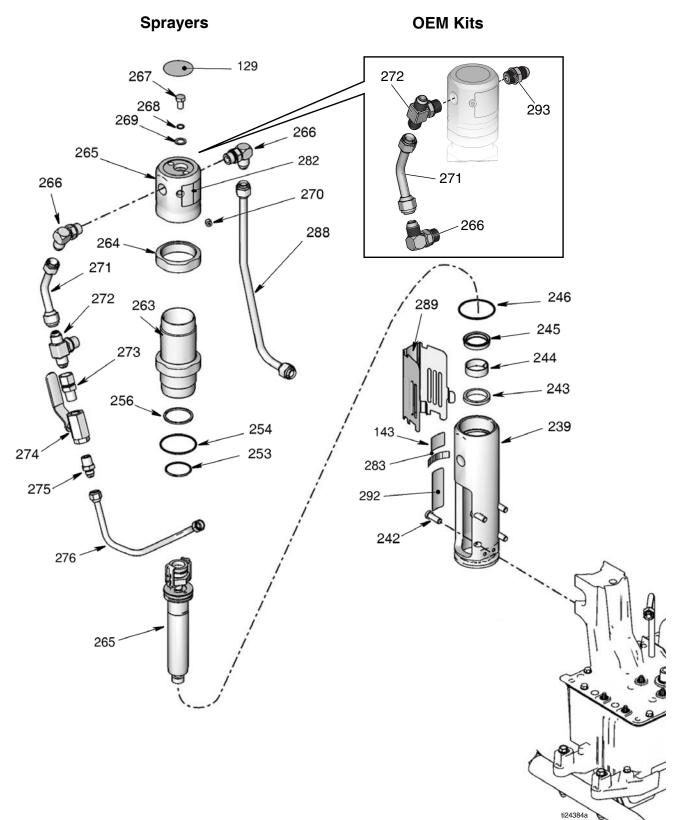
## Parts Drawing - Sprayers, OEM Kits



## Parts List - Sprayers, OEM Kits

|        |           |  | Qty |
|--------|-----------|--|-----|
| Ref.   | Part      | Description  |     |
| 63     | 243814    | HOSE, coupled  | 1   |
| 86     | 193031    | NUT, retaining, GH130                                    | 1   |
| 89     | 15D000    | CLIP, drain line   | 1   |
| 92     | 15J141    | PIN, pump, GH130   | 1   |
| 103    | 288732    | KIT, drain hose  | 1   |
| 110    | 241920    | DEFLECTOR, threaded                                      | 1   |
| 111    | 24B748    | PUMP, kit, displacement, GH130                           | 1   |
|        | 288467    | PUMP, kit, displacement, GH200                           | 1   |
|        | 288468    | PUMP, kit, displacement, GH230 & 300                     | 1   |
| 114    | 288251    | HOSE, suction, 5 gallon, GH130                           | 1   |
|        | 288252    | HOSE, suction, 5 gallon, GH200, 230 & 300                | 1   |
| 115    | 208259    | Hose, suction, 30/55 gallon, GH130<br>(not shown)        | 1   |
|        | 289669    | HOSE, suction, 30/55 gallon,                             | 1   |
|        |           | GH200/230/300 (not shown)                                |     |
| 120    | 116551    | RING, retaining, GH130                                   | 1   |
| 122    | 162485    | ADAPTER, nipple, GH130                                   | 1   |
|        | 196178    | ADAPTER, nipple, GH130 OEM                               | 1   |
| 124    | 114958    | STRAP, tie   | 4   |
| 179    | 277377    | COUPLER  | 2   |
| 186    | 107505    | PACKING, o-ring  | 1   |
| 187    | 15J413    | FITTING, pump, QD  | 1   |
| 188    | 120583    | NUT, hand, GH200/230/300                                 | 1   |
|        | 207123    | UNION, swivel, 90° GH130 OEM                             | 1   |
| 189    | 15J410    | FITTING, QD  | 1   |
| 190    | 155699    | FITTING, elbow, street, sprayer                          | 1   |
|        | 196179    | FITTING, elbow, street,<br>GH200/230/300 OEM             | 1   |
| 193    | 15H957    | COVER, coupler   | 1   |
| 194    | 156698    | PACKING, o-ring  | 1   |
| 195    | 119566    | WASHER, garden hose                                      | 1   |
| 196*   | 288472    | INLET FILTER, 10 mesh, standard                          | 1   |
|        | 289131    | INLET FILTER, 16 mesh                                    | 1   |
| 197*   | 288480    | NUT, strainer, inlet                                     | 1   |
| 198    | 117559    | O-RING   | 2   |
| 247    | 288344    | CLAMP, pump; GH 200, 230, 300                            | 1   |
| 279    | 105510    | WASHER, lock, spring (hi-collar),<br>GH200, GH230, GH300 | 2   |
| 280    | 101550    | SCREW, cap, sch  | 2   |
| 290    | 288741    | KIT, repair, pin/spacer; GH 200, 230, 300                | 1   |
| 291    | 15J417    | BOLT, adjustment; GH 200, 230, 300                       | 1   |
| ∗ Incl | uded in A | ccessory Kit 288481 (10 mesh) or                         |     |
|        |           | 289132 (16 mesh)   |     |

## **Parts Drawing**



## Parts List - Sprayers, OEM Kits

|        | _        |   | Qty |              | 15J845       | TUBE, hydraulic, return, GH200 1<br>TUBE, hydraulic, return, GH230 & 1 |
|--------|----------|---|-----|--------------|--------------|--|
| Ref.   | Part     | Description                                       | •   |              | 15J863       | TUBE, hydraulic, return, GH230 & 1<br>300                              |
| 129▲♦✓ | ′ 15B063 | LABEL   | 1   | 289          | 15J503       | SHIELD, rod, model 255095 only 1                                       |
| 143▲♦  | 15K430   | LABEL, GH130                                      | 1   | 203<br>292◆  | 15F584       | LABEL 1  |
|        | 15K432   | LABEL, GH200                                      | 1   | 292 <b>~</b> | 120184       | FITTING, straight, OEM kits only 1                                     |
|        | 15K434   | LABEL, GH230                                      | 1   | 200          | 120104       |  |
|        | 15K436   | LABEL, GH300                                      | 1   | ▲Dange       | er and Warn  | ing labels, are available at no cost.                                  |
| 239♦   | 15H953   | MANIFOLD, GH130                                   | 1   |              |              | ulic Motor Repair Kit: 288758 - GH130;                                 |
|        | 15J278   | MANIFOLD, GH200                                   | 1   | 2887         | 759 - GH200  | ); 288760 - GH230 & 300  |
|        | 15J279   | MANIFOLD, GH230 & 300                             | 1   |              | -            | od/Piston Kit: 288735 - GH130; 288736 -                                |
| 242♦   | 15B564   | SCREW, cap socket                                 | 4   |              |              | - GH230 & 300  |
| 243‡♦  | 117739   | WIPER, rod  | 1   | ‡ Includ     | ed in Seal K | (it 246174   |
| 244‡♦  | 112342   | BEARING, rod                                      | 1   |              |              |  |
| 245‡♦  | 112561   | PACKING, block                                    | 1   |              |              |  |
| 246‡♦  | 117283   | PACKING, o-ring                                   | 2   |              |              |  |
| -      | 108014   | PACKING, o-ring                                   | 1   |              |              |  |
| -      | 178226   | SEAL, piston                                      | 1   |              |              |  |
| -      | 178207   | BEARING, piston                                   | 1   |              |              |  |
| 263♦   | 246176   | SLEEVE, hydraulic cylinder, kit,<br>GH130 & 200   | 1   |              |              |  |
|        | 248991   | SLEEVE, hydraulic cylinder, kit,<br>GH230 & 300)  | 1   |              |              |  |
| 264♦   | 15A726   | NUT, jam  | 1   |              |              |  |
| 265♦   | 288735   | KIT, repair, trip rod, piston; GH130              | 1   |              |              |  |
|        |          | only  |     |              |              |  |
|        | 288736   | KIT, repair, trip rod, piston; GH 200 only        | 1   |              |              |  |
|        | 288737   | KIT, repair, trip rod, piston; GH<br>230/300 only | 1   |              |              |  |
| 266♦   | 117607   | FITTING, elbow std thd                            | 2   |              |              |  |
| 267√♦  | 106276   | SCREW, cap, hex head                              | 1   |              |              |  |
| 268√♦  | 155685   | PACKING, o-ring                                   | 1   |              |              |  |
| 269√♦  | 178179   | WASHER, sealing                                   | 1   |              |              |  |
| 270√♦  | 100139   | PLUG, pipe  | 1   |              |              |  |
| 271♦   | 198629   | TUBE, hydraulic, supply, GH130 & 200              | 1   |              |              |  |
|        | 15E596   | TUBE, hydraulic, supply, GH230 & 300              | 1   |              |              |  |
| 272♦   | 117609   | FITTING, tee, branch, str thd                     | 1   |              |              |  |
| 273    | 117328   | FITTING, nipple, straight                         | 1   |              |              |  |
| 274    | 117441   | VALVE, ball                                       | 1   |              |              |  |
| 275    | 116813   | FITTING, nipple, hydraulic                        | 1   |              |              |  |
| 276    | 15J819   | TUBE, hydraulic, supply, GH130                    | 1   |              |              |  |
|        | 15J846   | TUBE, hydraulic, supply, GH200                    | 1   |              |              |  |
|        | 15J864   | TUBE, hydraulic, supply, GH230,<br>GH300          | 1   |              |              |  |
| 282▲♦√ | ′ 15B804 | LABEL   | 1   |              |              |  |
| 283▲♦  | 192840   | LABEL   | 1   |              |              |  |
| 288    | 15J824   | TUBE, hydraulic, return, GH130                    | 1   |              |              |  |

# GH130 & 200 Sprayers with Spray Gun and Hoses

| Ref. | Part No. | Description  | Qty. |              |
|------|----------|--|------|--------------|
| 202  | 288489   | KIT, gun, Contractor<br>3300 psi (227 bar, 22.7 MPa)<br>Includes 202a - 202d   | 1    |              |
| 202a | 240794   | HOSE, grounded, nylon; 1/4 in. ID;<br>cpld 1/4-18 npsm; 50 foot (15 m);<br>spring guards both ends<br>3300 psi (227 bar, 22.7 MPa)               | ; 1  | 202c 202b    |
| 202b | 238358   | HOSE, grounded, nylon; 3/16 in. ID;<br>cpld 1/4 npt(m) x 1/4 npsm(f);<br>3 foot (0.9 m); spring guards both ends<br>3300 psi (227 bar, 22.7 MPa) | 1    |              |
| 202c | 288420   | Contractor Spray Gun<br>Includes 517 RAC <sup>®</sup> X SwitchTip<br>and HandTite <sup>™</sup> Guard<br>See 311861 for parts                     | 1    | 202a ii5413a |

## GH230 & 300 Sprayers with Spray Gun and Hoses

| Ref. | Part No. | Description   | Qty. |              |
|------|----------|---|------|--------------|
| 202  | 287042   | KIT, gun, Silver<br>3300 psi (227 bar, 22.7 MPa)                          | 1    |              |
|      |          | Includes 202a - 202d  |      |              |
| 202a | 240797   | HOSE, grounded, nylon; 3/8 in. ID cpld 3/8-18 npsm; 50 foot (15 m);       | ; 1  | 202c 202b    |
|      |          | spring guards both ends   |      |              |
| 202b | 241735   | 3300 psi (227 bar, 22.7 MPa)<br>HOSE, grounded, nylon; 1/4 in. ID;        | 1    |              |
|      |          | cpld 1/4 npt(m) x 1/4 npsm(f);<br>3 foot (0.9 m); spring guards both ends | 3    | 202d         |
|      |          | 3300 psi (227 bar, 22.7 MPa)  | 4    |              |
| 202c | 246240   | Silver Spray Gun<br>Includes 517 RAC <sup>®</sup> X SwitchTip             | I    | 202a ti5413b |
|      |          | and HandTite <sup>™</sup> Guard   |      |              |
|      |          | See 311254 for parts  |      |              |
| 202d | 159841   | ADAPTER, 3/8 X 1/4 in. npt  | 1    |              |

# **Sprayers Technical Data**

| Sprayer | Fluid     | Hydraulic | Maximum   | Engine  | Maximum  | Maximum  | Fluid Inlet | Hose       | Fluid  |
|---------|-----------|-----------|-----------|---------|----------|----------|-------------|------------|--------|
|         | Pressure  | Reservoir | Hydraulic | cc (HP) | Delivery | Tip Size | in.         | Connection | Outlet |
|         | psi (bar) | Capacity  | Pressure  |         | gpm      |          |             |            |        |
|         |           | Gallons   | psi (bar) |         | (lpm)    |          |             |            |        |
|         |           | (Liters)  |           |         |          |          |             | npsm (m)   | npt(f) |
| GH130   | 3300      | 1.25      | 1510      | 120     | 1.30     | 0.037    | 3/4         | 1/4        | 3/8    |
|         | (227)     | (4.75)    | (104)     | (4.0)   | (5.9)    |          | npt (m)     |            |        |
| GH200   | 3300      | 1.25      | 1855      | 160     | 2.15     | 0.047    | 1 5/16-12   | 1/4        | 3/8    |
|         | (227)     | (4.75)    | (128)     | (5.5)   | (9.8)    |          | UN-ZA       |            |        |
| GH230   | 3300      | 1.25      | 1855      | 200     | 2.35     | 0.053    | 1 5/16-12   | 3/8        | 3/8    |
|         | (227)     | (4.75)    | (128)     | (6.5)   | (10.7)   |          | UN-ZA       |            |        |
| GH300   | 3300      | 1.25      | 1855      | 270     | 3.0      | 0.057    | 1 5/16-12   | 3/8        | 3/8    |
|         | (227)     | (4.75)    | (128)     | (9.0)   | (11.4)   |          | UN-ZA       |            |        |

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

### Sound Levels\*

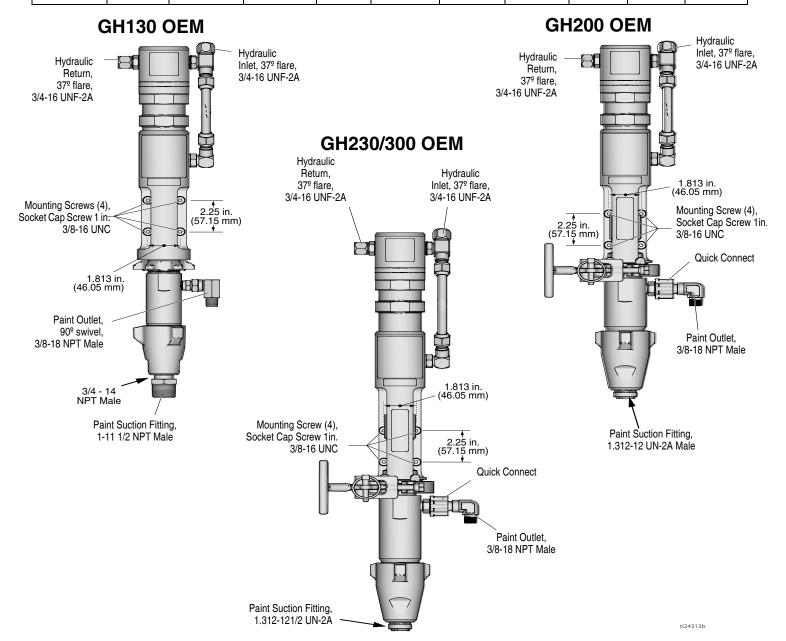
| Engine  | Sound Pressure dB(A) | Sound Power dB(A) |  |  |  |
|---|----------------------|-------------------|--|--|--|
| 120 cc (4.0 HP)   | 88                   | 103               |  |  |  |
| 160 cc (5.5 HP)   | 96                   | 110               |  |  |  |
| 200 cc (6.5 HP)   | 96                   | 110               |  |  |  |
| 270 cc (9.0 HP) 96 110                                  |                      |                   |  |  |  |
| *Measured at maximum normal load conditions (gas only). |                      |                   |  |  |  |

## Dimensions

| Sprayer | Weight lb (kg) | Width in. (cm) | Length in. (cm) |
|---------|----------------|----------------|-----------------|
| GH130   | 155 (70.3)     | 24 (61)        | 41 (104.1)      |
| GH200   | 160 (73.4)     | 24 (61)        | 41 (104.1)      |
| GH230   | 168 (75.6)     | 24 (61)        | 48 (121.92      |
| GH300   | 195 (87.8)     | 24 (61)        | 48 (121.92)     |

# **OEM Kits Technical Data**

|           |  | User Supplied Input                               |  |                               | Unit Output                                |                       | Dimensions        |                  |                  |                   |
|-----------|--|---|--|-------------------------------|--|-----------------------|-------------------|------------------|------------------|-------------------|
| OEM Kit   | Paint/<br>Hydraulic<br>Pressure<br>Ratio | Max<br>Hydraulic<br>Pressure<br>(psi/MPa/<br>bar) | Hydraulic<br>Flow<br>Required in<br>Free Flow<br>(gpm/lpm) | Max<br>Cycle<br>Rate<br>(cpm) | Max Fluid<br>Pressure<br>(psi/MPa/<br>bar) | Max Flow<br>(gpm/lpm) | Height<br>(in/mm) | Width<br>(in/mm) | Depth<br>(in/mm) | Weight<br>(lb/kg) |
| GH130     | 2.19:1                                   | 1510/10.4/1<br>04.1                               | 4.01/15.2  | 125                           | 3300/22.8/<br>227.5                        | 1.30/4.92             | 25.4/645          | 5.70/145         | 3.14/80          | 27.5/12.5         |
| GH200     | 1.78:1                                   | 1855/12.8/1<br>27.9                               | 5.13/19.4  | 160                           | 3300/22.8/<br>227.5                        | 2.15/8.14             | 25.60/650         | 5.39/137         | 5.39/137         | 32.5/14.7         |
| GH230/300 | 1.78:1                                   | 1855/12.8/1<br>27.9                               | 6.60/25.0  | 145                           | 3300/22.8/<br>227.5                        | 3.0/11.4              | 28.80/732         | 8.94/227         | 5.38/137         | 35/15.9           |



# Notes

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# **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.

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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#### ADDITIONAL WARRANTY COVERAGE

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

# **Graco Information**

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

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

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

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Original instructions. This manual contains English. MM 311797

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

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