## **Repair - Parts List**



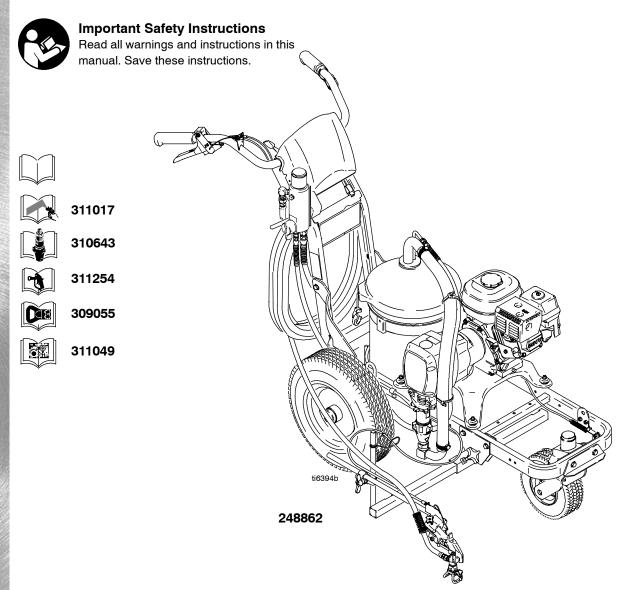
# LineLazer™IV 3900, 5900 Airless Line Stripers

Chinese Patent ZL03801904.3 U.S. Patent 6,913,417

311020N

- For application of line striping materials -

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



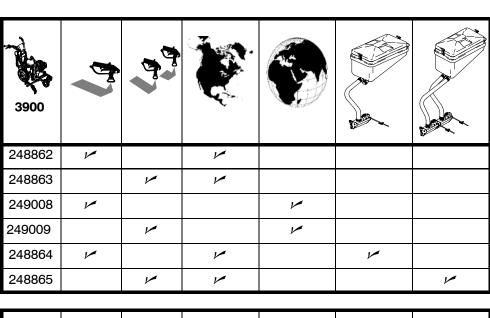
PROVEN QUALITY. LEADING TECHNOLOGY.



## **Table of Contents**

Models	Distance Sensor Adjustment	18
Warnings	Control Board Diagnostics	19
Spray Tip Selection Table 5	Displacement Pump	20
Maintenance 6	Parts	
Troubleshooting 7	LineLazer IV 3900/5900	22
Repair	Drive and Pinion Housing Assemblies	23
Bearing Housing & Connecting Rod 10	Pressure Control Wiring Diagram	34
Drive Housing 11	Technical Data	35
Pinion Assembly/Clutch Armature/Clamp 12	Dimensions	35
Engine	Graco Phone Number	35
Pressure Control	Graco Warranty	36
Trigger Sensor Adjustment		

## **Models**



5900	<b>(</b> )	<b>(</b> )				
248866	~		~			
248867		~	~			
249010	~			~		
249011		~		~		
248868	~		~		~	
248869		<b>V</b>	~			~

## **Warnings**

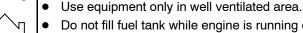
The following Warnings are for safe setup, use, grounding, maintenance and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbols refer to procedure-specific risks. Refer back to these Warnings.

## **A** WARNING

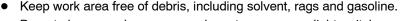


### FIRE AND EXPLOSION HAZARD

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



- Do not fill fuel tank while engine is running or hot; shut off engine and let it cool. Fuel is flammable and can ignite or explode if spilled on hot surface.
- Eliminate all ignition sources; such as pilot lights, cigarettes, portable electric lamps, and plastic drop cloths (potential static arc).



- Do not plug or unplug power cords, or turn power or light switches on or off when flammable fumes are present.
- Ground equipment and conductive objects in 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 fire extinguisher in work area.



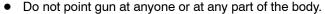
### CARBON MONOXIDE HAZARD

Exhaust contains poisonous carbon monoxide, which is colorless and odorless. Breathing carbon monoxide can cause death. Do not operate in an enclosed area.



### 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 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.



### 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.

## **A** WARNING



### **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.
- 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 kink or overbend hoses or use hoses to pull equipment
- Keep children and animals away from work area.
- Comply with all applicable safety regulations.



### **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.



### **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.



### 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.



### **RECOIL HAZARD**

Brace yourself; gun may recoil when triggered and cause you to fall, which could cause serious injury.

# **Tip Selection**

	in. (cm)	in. (cm)	in. (cm)	in. (cm)			
LL5213*	2 (5)				~		
LL5215*	2 (5)					~	
LL5217		4 (10)				~	
LL5219		4 (10)					<i>\rightarrow</i>
LL5315*		4 (10)			~		
LL5317		4 (10)			~		
LL5319		4 (10)				~	
LL5321		4 (10)				~	
LL5323		4 (10)				~	
LL5325		4 (10)					~
LL5327		4 (10)					~
LL5329		4 (10)					~
LL5331		4 (10)					~
LL5333		4 (10)					~
LL5335		4 (10)					~
LL5355		4 (10)					~
LL5417			6 (15)		~		
LL5419			6 (15)		~		
LL5421			6 (15)		~		
LL5423			6 (15)			~	
LL5425			6 (15)			~	
LL5427			6 (15)			~	
LL5429			6 (15)			~	
LL5431			6 (15)				~
LL5435			6 (15)				~
LL5621				12 (30)	~		
LL5623				12 (30)	~		
LL5625				12 (30)	~		
LL5627				12 (30)	~		
LL5629				12 (30)	~		
LL5631				12 (30)		<b>/</b>	
LL5635				12 (30)		~	. 4
LL5639	1 60			12 (30)			<b>/</b>

<sup>\*</sup> Use 100 mesh filter to reduce tip clogs

## **Maintenance**



### **Pressure Relief Procedure**

- Lock gun trigger safety.
- 2. Turn engine ON/OFF switch to OFF.
- Move pump switch to OFF and turn pressure control knob fully counterclockwise.
- 4. Unlock trigger safety. Hold metal part of gun firmly to side of grounded metal pail, and trigger gun to relieve pressure.
- 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**

- Minimum hose size allowable for proper sprayer operation is 3/8 in. x 50 ft
- 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 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.

#### 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 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:** Check level of 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.

### AFTER EACH 100 HOURS OF OPERATION:

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

**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.

### Caster Wheel

(See letter call-outs in Parts drawing on page 28)

- 1. Once each year, tighten nut (127) under dust cap (142) until spring washer bottoms out. Then back off the nut 1/2 to 3/4 turn.
- 2. Once each year, tighten nut (127) on screw (131) until it begins to compress spring washer. Then tighten the nut an additional 1/4 turn.
- 3. Once each month, grease the wheel bearing (F).
- Check pin (55) for wear. If pin is worn out, there will be play in the caster wheel. Reverse or replace the pin as needed.
- Check caster wheel alignment as necessary.
   To align: loosen screw (145), align wheel and tighten screw.

# **Troubleshooting**



PROBLEM	CAUSE	SOLUTION
E=XX is displayed	Fault condition exists	Determine fault correction from table, page 19.
Engine won't start	Engine switch is OFF	Turn engine switch ON
	Engine is out of gas	Refill gas tank. Honda Engines Owner's Manual.
	Engine oil level is low	Try to start engine. Replenish oil, if necessary. Honda Engines Owner's Manual.
	Spark plug cable is disconnected or damaged	Connect spark plug cable or replace spark plug
	Cold engine	Use choke
	Fuel shutoff lever is OFF	Move lever to ON position
	Oil is seeping into combustion chamber	Remove spark plug. Pull starter 3 to 4 times. Clean or replace spark plug. Start engine. Keep sprayer upright to avoid oil seepage.
Engine operates, but dis- placement pump does not operate	Error code displayed?	Reference pressure control repair. Page 17.
	Pump switch is OFF	Turn pump switch ON.
	Pressure setting is too low	Turn pressure adjusting knob clockwise to increase pressure.
	Fluid filter (11) is dirty	Clean filter. Page 32.
	Tip or tip filter is clogged	Clean tip or tip filter. See spray gun manual.
	Displacement pump piston rod is stuck due to dried paint	Repair pump. See pump manual.
	Connecting rod is worn or damaged	Replace connecting rod. Page 10.
	Drive housing is worn or damaged	Replace drive housing. Page 11.
	Electrical power is not energizing clutch field	Check wiring connections. Page 15. Reference pressure control repair. Page 17. Reference wiring diagram. Page 34. With pump switch ON and pressure turned to MAXIMUM, use a test light to check for power between clutch test points on control board.
		Remove 7-pin connector from control board and measure resistance across clutch coil. At 70° F, the resistance must be between 1.2 ±0.2Ω (LineLazer IV 3900); 1.7 ±0.2Ω (LineLazer IV 5900); if not, replace pinion housing.
		Have pressure control checked by authorized Graco dealer.
	Clutch is worn, damaged, or incorrectly positioned	Replace clutch. Page 12.
	Pinion assembly is worn or damaged	Repair or replace pinion assembly. Page 12.

# **Troubleshooting**

PROBLEM	CAUSE	SOLUTION	
Pump output is low	Strainer (34f) is clogged	Clean strainer.	
	Piston ball is not seating	Service piston ball. See pump manual.	
	Piston packings are worn or damaged	Replace packings. See pump manual.	
	O-ring in pump is worn or damaged	Replace o-ring. See pump manual.	
	Intake valve ball is not seating properly	Clean intake valve. See pump manual.	
	Intake valve ball is packed with material	Clean intake valve. See pump manual.	
	Engine speed is too low	Increase throttle setting. See operation manual.	
	Clutch is worn or damaged	Replace clutch. Page 12.	
	Pressure setting is too low	Increase pressure. See operation manual.	
	Fluid filter (11), tip filter or tip is clogged or dirty	Clean filter. See operation or spray gun manual.	
	Large pressure drop in hose with heavy materials	Use larger diameter hose and/or reduce overall length of hose. Use of more than 100 ft of 1/4 in. hose significantly reduces performance of sprayer. Use 3/8 in. hose for optimum performance (50 ft minimum).	
Excessive paint leakage into throat packing nut	Throat packing nut is loose	Remove throat packing nut spacer. Tighten throat packing nut just enough to stop leakage.	
	Throat packings are worn or damaged	Replace packings. See pump manual.	
	Displacement rod is worn or damaged	Replace rod. See pump manual.	
Fluid is spitting from gun	Air in pump or hose	Check and tighten all fluid connections. Reprime pump. See operation manual.	
	Tip is partially clogged	Clear tip. See spray gun manual.	
	Fluid supply is low or empty	Refill fluid supply. Prime pump. See operation manual. Check fluid supply often to prevent running pump dry.	
Pump is difficult to prime	Air in pump or hose	Check and tighten all fluid connections.	
		Reduce engine speed and cycle pump as slowly as possible during priming.	
	Intake valve is leaking	Clean intake valve. Be sure ball seat is not nicked or worn and that ball seats well. Reassemble valve.	
	Pump packings are worn	Replace pump packings. See pump manual.	
	Paint is too thick	Thin the paint according to the supplier's recommendations	
	Engine speed is too high	Decrease throttle setting before priming pump. See operation manual.	
Clutch squeaks each time clutch engages	Clutch surfaces are not matched to each other when new and may cause noise	Clutch surfaces need to wear into each other. Noise will dissipate after a day of run time.	
High engine speed at no	Misadjusted throttle setting	Reset throttle to 3600 engine rpm at no load	
load	Worn engine governor	Replace or service engine governor	

# **Troubleshooting**

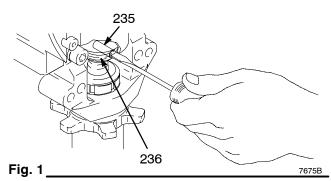
PROBLEM	CAUSE	SOLUTION
Gallon counter not working	Broken or disconnected wire	Check wires and connections. Replace broken wires.
	Bad sensor	Replace sensor
	Missing magnet	Reposition or replace magnet.
Sprayer operates, but display does not	Bad connection between control board and display	Remove display and reconnect
	Display damaged	Replace display
Distance counter not operating properly	Trigger sensor not set correctly	See "Spray icon does not show on display when fluid is sprayed"
	Bad wiring connections	Check connector, and reconnect
	Distance sensor not spaced correctly from gear	Adjust space between sensor and gear to .050 -/+ .020 in. See page 18.
	Distance sensor and gear not aligned	Remove tire, and press in or pull out gear to align sensor and gear.
	Gear teeth missing or damaged.	Replace distance gear/wheel
	Wire cracked or broken	Replace sensor
Mils not calculating	Distance sensor	See "Distance counter not operating properly"
	Trigger sensor	See "Spray icon does not show on display when fluid is sprayed"
	Gallon counter	See "Gallon counter not working"
	Bad or damaged control board	Replace control board
Fluid spray starts after spray icon is shown on display	Interrupter (164) is improperly positioned	Turn screw (126) counterclockwise until spray icon synchronizes with fluid spray
Fluid spray starts before spray icon is shown on display	Interrupter (164) is improperly positioned	Turn screw (126) clockwise until spray icon is synchronized with fluid spray
Spray icon does not show on display when fluid is sprayed	Loose connector	Check connector and reconnect
	Interrupter (164) is improperly positioned	Turn screw (126) counterclockwise until spray icon synchronizes with fluid spray
	Reed switch assembly (166) is damaged	Replace reed switch assembly (166)
	Magnet on assembly (166) is missing	Replace reed switch assembly (166)
	Cut or sliced wire	Replace distance sensor harness (66)
	Control board is damaged	Replace control board
	Display is damaged	Replace display
Spray icon is always shown on display	Interrupter (164) is improperly positioned	Turn screw (126) clockwise until spray icon is synchronized with fluid spray
	Reed switch assembly (166) is damaged	Replace reed switch assembly (166)

## **Bearing Housing and Connecting Rod**

### Removal



- 1. Relieve pressure, page 6.
- 2. Fig. 2. Remove screws (187) and front cover (83).
- 3. Unscrew suction tube (34) from pump, hold wrench on pump intake valve (A) to keep pump from loosening.
- 4. Disconnect pump outlet hose (100) from displacement pump outlet nipple (60).
- 5. Fig. 1. Use screwdriver to push up retaining spring (236) at top of pump. Push out pin (235).



- 6. Fig. 2. Loosen retaining nut (84). Unscrew and remove displacement pump (21).
- 7. Remove four screws (183) and lockwashers (173) from bearing housing (22).
- Pull connecting rod (26) and lightly tap lower rear
  of bearing housing (22) with plastic mallet to
  loosen from drive housing (24). Pull bearing housing and connecting rod assembly (26) off drive
  housing.
- Inspect crank (B) for excessive wear and replace parts as needed.

### Installation

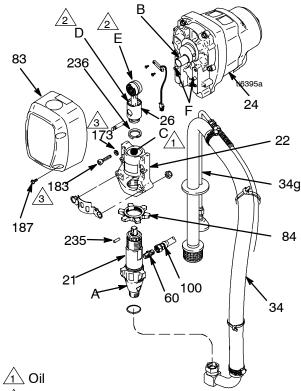
- Evenly lubricate inside of bronze bearing (C) in bearing housing (22) with high-quality motor oil. Liberally pack top roller bearing (E), lower bearing (D) inside connecting rod assembly (26) with bearing grease.
- 2. Assemble connecting rod (26) and bearing housing (22).

- 3. Clean mating surfaces of bearing and drive housings.
- Align connecting rod with crank (B) and carefully align locating pins (F) in drive housing (24) with holes in bearing housing (22). Push bearing housing onto drive housing or tap into place with plastic mallet.

## **CAUTION**

DO NOT use bearing housing screws (183) to align or seat bearing housing with drive housing. Align these parts with locating pins (F), to avoid premature bearing wear.

- Install screws (183) and lockwashers (173) on bearing housing. Torque evenly to note 3 value in Fig. 2.
- Install pump. Refer to Displacement Pump, Installation, page 20.



2 Pack with bearing grease 114819

LineLazer IV 3900: Torque to 200 in-lb (22.6 N·m) LineLazer IV 5900: Torque to 25 ft-lb (34 N·m)

Fig. 2 \_\_\_\_\_ Model 248862 shown

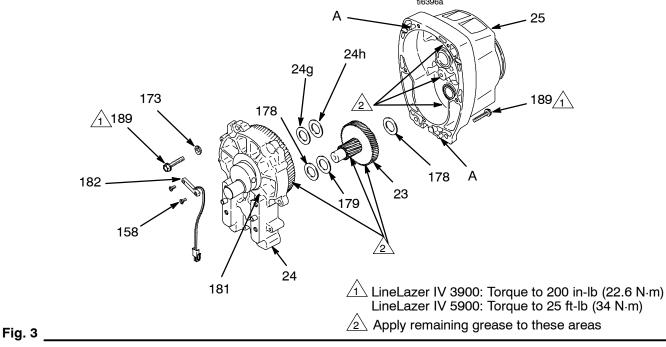
## **Drive Housing**

### Removal



- Relieve pressure, page 6.
- 2. Fig. 3. Remove bearing housing. Do Bearing Housing and Connecting Rod procedure on page 10.
- 3. Remove two screws (158) and reed switch (182).
- Remove six screws (189) from pinion housing (25).
- 5. Lightly tap around drive housing (24) to loosen drive housing. Pull drive housing straight off pinion housing. Be prepared to support gear cluster (23), which may also come out.

- Liberally apply bearing grease (supplied with replacement gear cluster) to gear cluster (23) and to areas called out by note 2.
- Place bronze colored washer (24g) on shaft protruding from large shaft of drive housing (24). Place silver colored washer (24h) on pinion housing. Clean mating surfaces of pinion and drive housings. Align gears and push new drive housing straight onto pinion housing and locating pins (A).
- Install six screws (189). Torque evenly to note 1 value in Fig. 3.
- Install reed switch (182) with two screws (158).
- Install bearing housing. Do steps 1. through 6. of Bearing Housing and Connecting Rod procedure on page 10.



## Pinion Assembly/Clutch Armature/Clamp

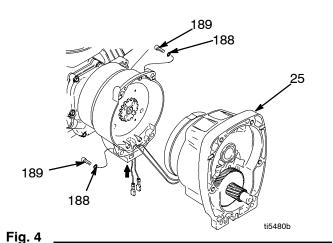
## Pinion Assembly/Clutch Armature Removal

## **Pinion Assembly**

If pinion assembly (25) is not removed from clutch housing (85), do 1. through 3. Otherwise, start at 4.



- 1. Remove drive housing, page 11.
- 2. Fig. 12. Remove clip (251) and junction box (226).
- Fig. 11. Disconnect pump stroke sensor and clutch cables.
- 4. Fig. 4. Remove four screws (189) and lockwashers (188) and pinion assembly (25).



- 5. Fig. 5. Place pinion assembly (25) on bench with rotor side up.
- Remove four screws (170) and lockwashers (172). Install two screws in threaded holes (E) in rotor. Alternately tighten screws until rotor comes off.

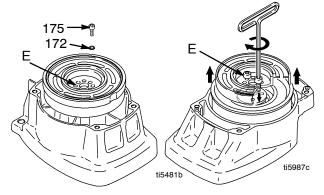
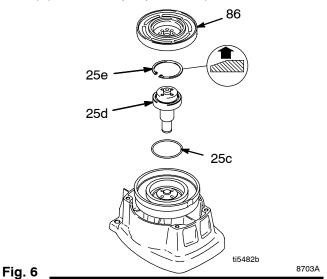


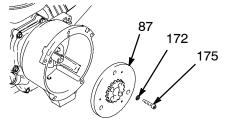
Fig. 5

- 7. Fig. 6. Remove retaining ring (25e).
- 8. Tap pinion shaft (25d) out with plastic mallet.



### **Clutch Armature**

- 9. Fig.7. Use an impact wrench or wedge something between armature (87) and clutch housing to hold engine shaft during removal.
- 10. Remove four screws (175) and lockwashers (172).
- 11. Remove armature (87).



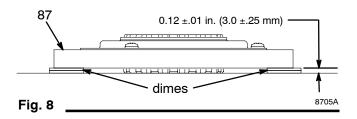
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Fig. 7 \_\_\_\_\_

### Installation

### **Clutch Armature**

- Fig. 8. Lay two stacks of two dimes on smooth bench surface.
- 2. Lay armature (87) on two stacks of dimes.
- 3. Press center of clutch down on bench surface.

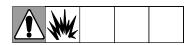


- 4. Install armature (87) on engine drive shaft.
- 5. Install four screws (175) and lockwashers (172) with torque of 125 in-lb.

## Clamp

### Removal

1. Do Engine Removal.



- 2. Drain gasoline from tank according to Honda manual.
- 3. Tip engine on side so gas tank is down and air cleaner is up.
- 4. Fig. 9. Loosen two screws (175) on clamp (82),
- Push screwdriver into slot in clamp (82) and remove clamp.

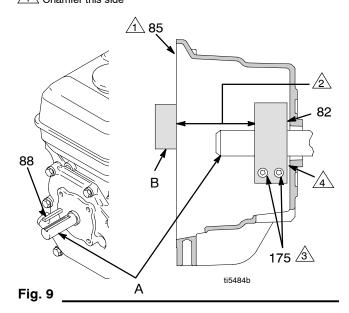
#### Installation

- 1. Fig. 9. Install engine shaft key (88).
- Tap clamp (82) on engine shaft (A) with plastic mallet. Maintain dimension shown note 2. Chamfer must face engine.
- Check dimension: Place rigid, straight steel bar (B) across face of clutch housing (5). Use accurate measuring device to measure distance between bar and face of clamp. Adjust clamp as necessary.
   Torque two screws (175) to 125 ±10 in-lb (14 ±1.1 N·m).

### **Pinion Assembly**

- Fig. 6. Check o-ring (25c) and replace if missing or damaged.
- 7. Tap pinion shaft (25d) in with plastic mallet.
- 8. Install retaining ring (25e) with beveled side facing up.
- 9. Fig. 5. Place pinion assembly on bench with rotor side up.
- Apply locktite to screws. Install four screws (170) and lockwashers (172). Alternately torque screws to 125 in-lb until rotor is secure. Use threaded holes to hold rotor.
- 11. Fig. 4. Install pinion assembly (25) with five screws (189) and lockwashers (188).
- 12. Fig. 11. Connect pump stroke sensor and clutch cables.
- 13. Fig. 12. Install junction box (226) with clip (251).

1 Face of clutch housing
2 2.55 ±.010 in. (39.37 ±.25 mm); LineLazer IV 3900 2.61 ±.010 in. (66.29 ±.25 mm); LineLazer IV 5900
3 Torque to 125 ±.10 in-lb (14 ±1.1 N·m)
4 Chamfer this side

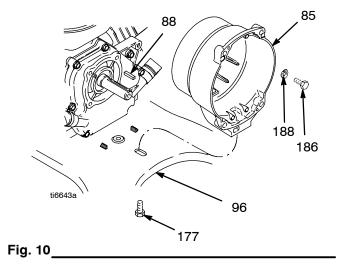


# **Clutch Housing**

## Removal

- 1. Fig. 10. Remove four cap screws (186) and lock washers (188) which hold clutch housing (85) to engine.
- 2. Remove screw (177) from under mounting plate (96).
- 3. Pull off clutch housing (85).

- 1. Fig. 10. Push on clutch housing (5).
- Install four cap screws (186) and lock washers (188) and secure clutch housing (85) to engine. Torque to 200 in-lb (22.6 N•m).
- 3. Install capscrew (177) from beneath mounting plate (96). Torque to 26 ft-lb (35.2 N•m).

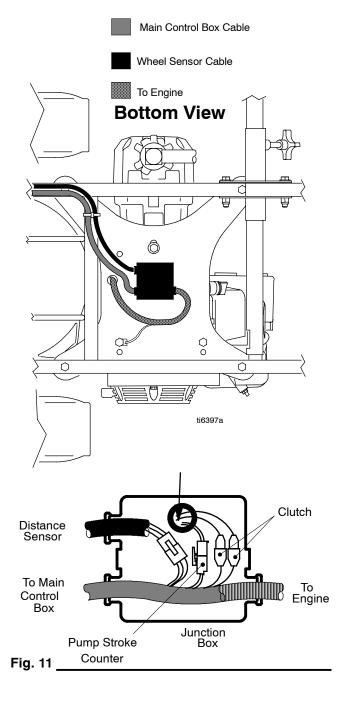


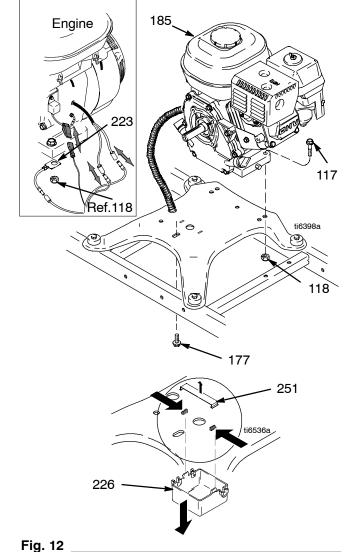
## **Engine**

### Removal

- 1. Remove Pinion Assembly/Clutch Armature/ Clamp and Clutch Housing. See pages 10 - 14.
- 2. Fig. 12. Remove clip (251) and junction box (226).
- Fig. 11. Disconnect all necessary wiring.
- 4. Fig. 12. Remove screw (177). Remove two screws (117), locknuts (118), and ground conductor (230, 260) from base of engine (185).
- 5. Lift engine carefully and place on work bench.

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





- Lift engine carefully and place on cart.
- 2. Fig. 12. Install two screws (117) and ground conductor (223, 260) in base of engine and secure with locknuts (118). Torque to 20 to 30 ft-lb.
- Fig. 11. Connect all necessary wiring.
- 4. Install Pinion Assembly/Clutch Armature/Clamp and Clutch Housing. See pages 10 - 14. 311020

## **Pressure Control**

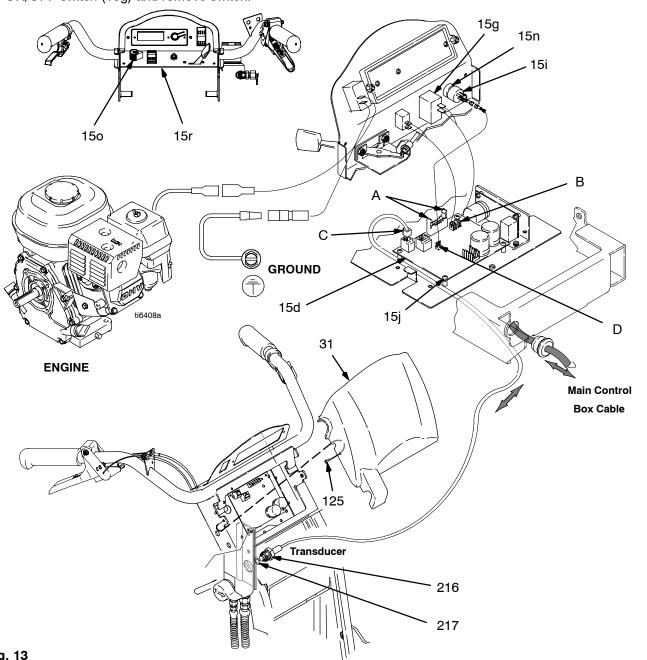
## On/Off Switch

### Removal



- Relieve pressure, page 6.
- 2. Fig. 13. Remove two screws (125) and cover (31).
- Pull display connector wings (A) open on PC board and pull display connector out.
- Disconnect ON/OFF switch connector (B) from PC board.
- Press in on two retaining tabs on each side of ON/OFF switch (15g) and remove switch.

- 1. Install ON/OFF switch (15g) so tabs of switch snap into place on inside of pressure control housing.
- Connect ON/OFF switch connector (B) to PC board.
- 3. Push display connector into PC board close display connector wings (A) on PC board.
- 4. Install cover (31) with two screws (125).



## **Pressure Control**

## **Control Board**

#### Removal



- 1. Relieve pressure, page 6.
- Fig. 13. Remove two screws (125) and control cover (31). Pull display connector wings open on PC board and pull display connector out.
- 3. Figs. 13 and 21. Note on a paper lead connections to the control board. Disconnect leads from control board (15d).
- 4. Fig. 13. Remove four screws (15j) from control board (15d).

### Installation

- 1. Fig. 13. Install control board (15d) with four screws (15j).
- Figs. 13 and 21. Refer to note on lead connections to the control board. Connect leads to control board (15d).
- 3. Fig. 13. Push display connector into PC board close display connector wings on PC board. Install control cover (31) with two screws (125).

### **Pressure Control Transducer**

#### Removal



- 1. Relieve pressure, page 6.
- 2. Fig. 13. Remove two screws (125) and control cover (31).
- 3. Disconnect transducer lead (C) from control board (15d).

4. Remove pressure control transducer (216) and o-ring (217) from filter manifold (40).

#### Installation

- 1. Fig. 13. Install o-ring (217) and pressure control transducer (216) in filter manifold (40). Torque to 35–45 ft-lb.
- 2. Connect transducer lead (C) to control board (15d).
- 3. Install control cover (31) with two screws (125).

## **Pressure Adjust Potentiometer**

#### Removal



- 1. Relieve pressure, page 6.
- 2. Fig. 13. Remove two screws (125) and control cover (31).
- 3. Disconnect lead (D) from control board (15d).
- Loosen set screws on potentiometer knob (15o) and remove knob, shaft nut, lockwasher and pressure adjust potentiometer (15i).
- 5. Remove seal (15n) from potentiometer (15i).

- 1. Install seal (15n) on potentiometer (15i).
- Fig. 13. Install pressure adjust potentiometer (15i), shaft nut, lockwasher and potentiometer knob (15o).
  - a. Turn potentiometer shaft (15i) clockwise to internal stop. Assemble potentiometer knob (15o) to strike pin on plate (15r).
  - After adjustment of step a., tighten both set screws in knob 1/4 to 3/8 turn after contact with shaft.
- 3. Connect lead (D) to control board (15d).
- 4. Install control cover (31) with two screws (125).

## **Trigger Sensor Adjustment**

Refer to Troubleshooting for trigger sensor adjustment, and see operation manual.

## **Distance Sensor Adjustment**

### **Gear Alignment**



- Relieve pressure, page 6.
- Fig. 14. Remove dust cap (142) from wheel. Remove nut (127).
- 3. Remove wheel (120) from LineLazer.
- Align gear (67) with sensor.
  - a. Pull gear out from wheel with gear puller.
  - b. Push gear in toward wheel with mallet.

- 5. Install wheel (120) on LineLazer.
- Install nut (127) until tight, then back off 1/4 turn. Install dust cap (142) on wheel.

### Sensor Height Adjustment

- 1. Remove wheel (120) from LineLazer.
- Remove distance sensor (66).
- 3. Adjust sensor assembly height with two 17 mm nuts of sensor so bottom surface of sensor is 0.638 +/-0.020 from bottom surface of shield. Torque to 8 +/- 2 in-lb.
- 4. Reassemble distance sensor (66) and wheel (82).

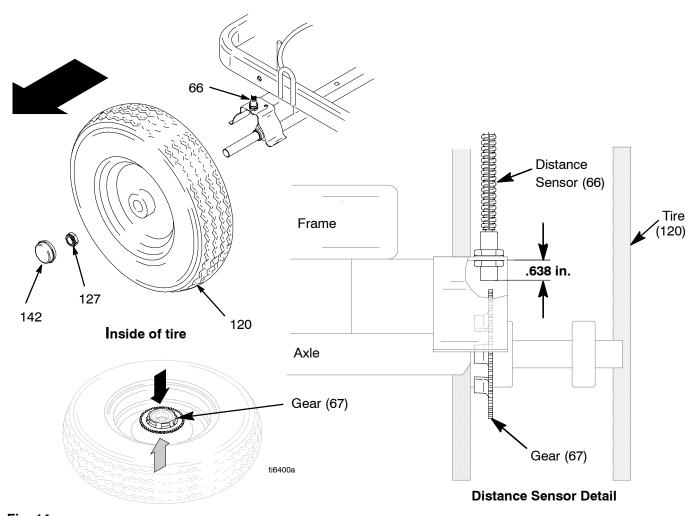


Fig. 14

# **Control Board Diagnostics**

## **Digital Display Messages**



Relieve pressure before repair; page 6. No display does not mean that sprayer is not pressurized.

DISPLAY	SPRAYER OPERATION	INDICATION	ACTION
No Display	Sprayer may be pressurized.	Loss of power or display not connected	Check power source. Relieve pressure before repair or disassembly. Verify display is connected.
***	Sprayer may be pressurized.	Pressure less than 200 psi (14 bar, 1.4 MPa)	Increase pressure as needed
3000 psi ∂10 bar ∂1 MPa	Sprayer is pressurized. Power is applied. (Pressure varies with tip size and pressure control setting.)	Normal operation	Spray
5:02	Sprayer stops. Engine is running.	Exceeded pressure limit	Remove any filter clogs or flow obstructions. Make sure gun trigger is locked open if using Auto-Clean valve.
£:03	Sprayer stops. Engine is running.	Pressure transducer faulty, bad connection or broken wire.	Check transducer connections and wire. Replace transducer or control board, if necessary.
E:05	Sprayer stops. Engine is running.	High clutch current	<ol> <li>Check clutch 7-pin bulkhead connector. Clean contacts.</li> <li>Measure 1.2 ±0.2Ω (LineLazer IV 3900);         <ol> <li>±0.2Ω (LineLazer IV 5900) across clutch field at 70°F</li> </ol> </li> <li>Replace clutch field assembly</li> </ol>

## After a fault, follow these steps to restart sprayer:

- 1. Correct fault condition
- 2. Turn sprayer OFF
- 3. Turn sprayer ON

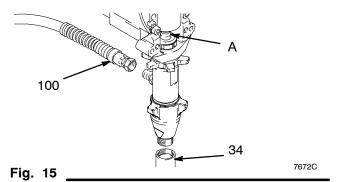
## **Displacement Pump**

### Removal

1. Flush pump.



- 2. Relieve pressure, page 6.
- Fig. 15. Cycle pump piston rod (A) to lowest position.
- 4. Fig. 15. Remove suction tube (34) and hose (100).



Repair

See manual 310643 for pump repair instructions.

### Installation

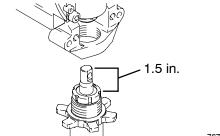
## **A** WARNING

If pin works loose, parts could break off due to force of pumping action. Parts could project through the air and result in serious injury or property damage. Make sure pin and retaining spring are properly installed.

## **CAUTION**

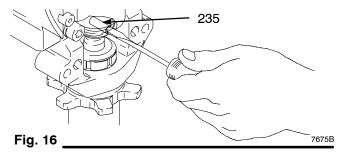
If the pump locknut loosens during operation, the threads of the bearing housing will be damaged. Make sure locknut is properly tightened.

 Fig. 18. Pull piston rod out 1.5 in. Screw in pump until holes in bearing cross link and piston rod align.

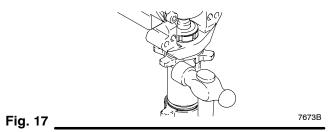


311020

5. Fig. 16. Use screwdriver: push retaining spring up and push out pin (235).



6. Fig. 17. Loosen locknut by hitting firmly with a 20 oz (maximum) hammer. Unscrew pump.



2. Fig. 16. Push pin (235) into hole. Push retaining spring into groove around connecting rod.

Fig. 19. Screw jam nut down onto pump until nut stops. Screw pump up into bearing housing until it is stopped by jam nut. Back off pump and jam nut to align pump outlet to back. Tighten jam nut by hand, then tap 1/8 to 1/4 turn with a 20 oz (maximum) hammer to approximately  $75\pm5$  ft-lb (102 N·m).

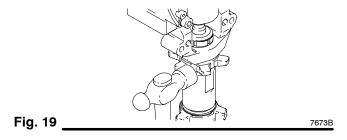
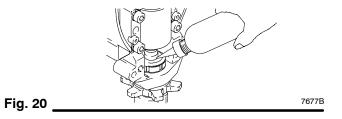
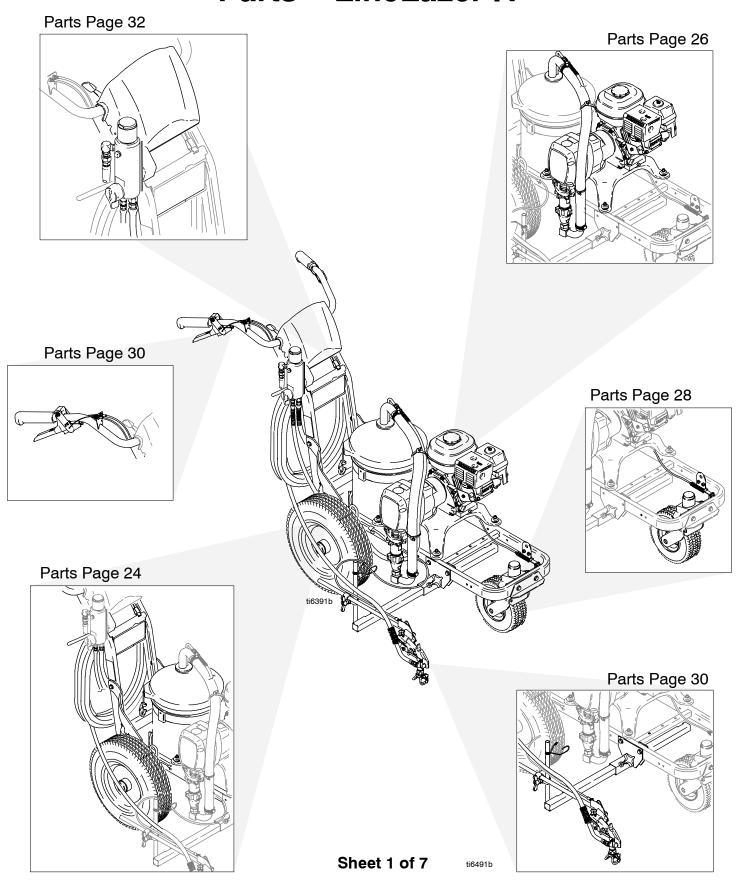


Fig. 20. Fill packing nut with Graco TSL until fluid flows onto the top of seal.



## **Notes**



## Parts - Drive and Pinion Housing Assemblies

## Ref No. 24 and 25

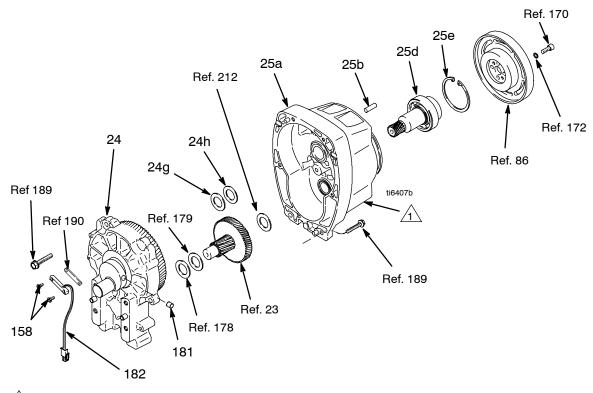
Ref No. 24: Drive Housing Assembly 287467 for LineLazer IV 3900; Drive Housing Assembly 287469 for LineLazer IV 5900

Ref No.	Part No.	Description	Qty
24	287467	HOUSING, drive (3900)	1
	287469	HOUSING, drive (5900)	1
24g		WASHER	
	107089	LineLazer IV 3900	1
	194173	LineLazer IV 5900	1
24h		WASHER	
	116191	LineLazer IV 3900	1
	116192	LineLazer IV 5900	1

Ref No. 25: Pinion Housing Assembly 287463 for LineLazer IV 3900; Pinion Housing Assembly 287465 for LineLazer IV 5900

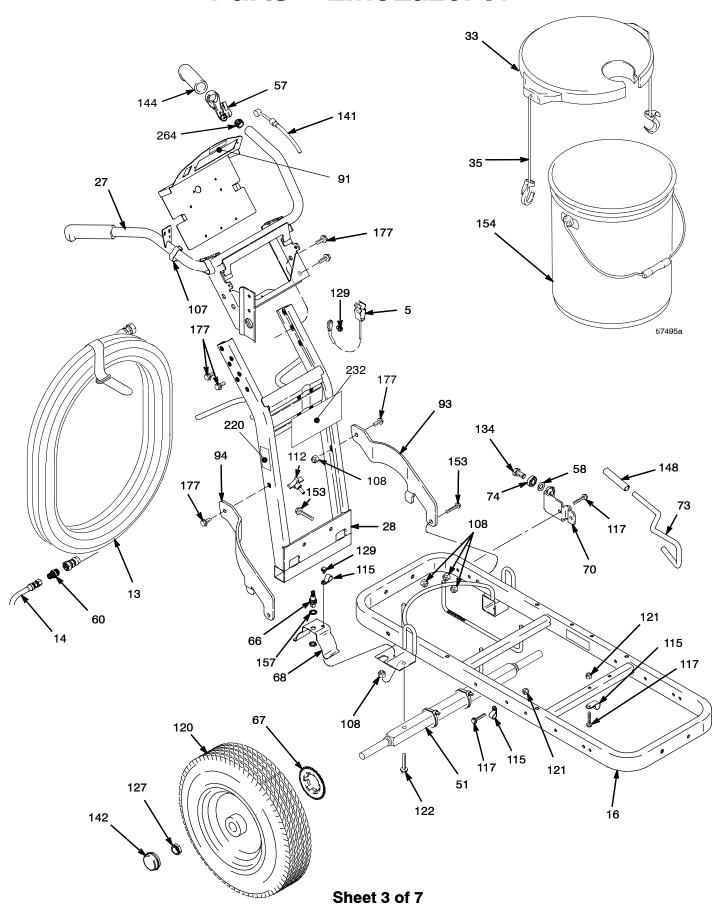
Ref	Dowt No.	Description	Ot.
No.	Part No.	Description	Qty
05	007460	LIQUEING minion (2000)	
25	287463	HOUSING, pinion (3900)	1
	287465	HOUSING, pinion (5900)	1
25a		KIT, repair, coil	
	287474	LineLazer IV 3900	1
	287476	LineLazer IV 5900	1
25b	105489	PIN	2
25d*		PINION SHAFT	
	241110	LineLazer IV 3900	1
	241114	LineLazer IV 5900	1
25e*		RETAINING RING, large	
	113094	LineLazer IV 3900	1
	112770	LineLazer IV 5900	1
158	114528	SCREW, machine	2
181	116618	MAGNET	1
182	119562	SWITCH, reed w/connector	1

<sup>\*</sup>Must be ordered separately.



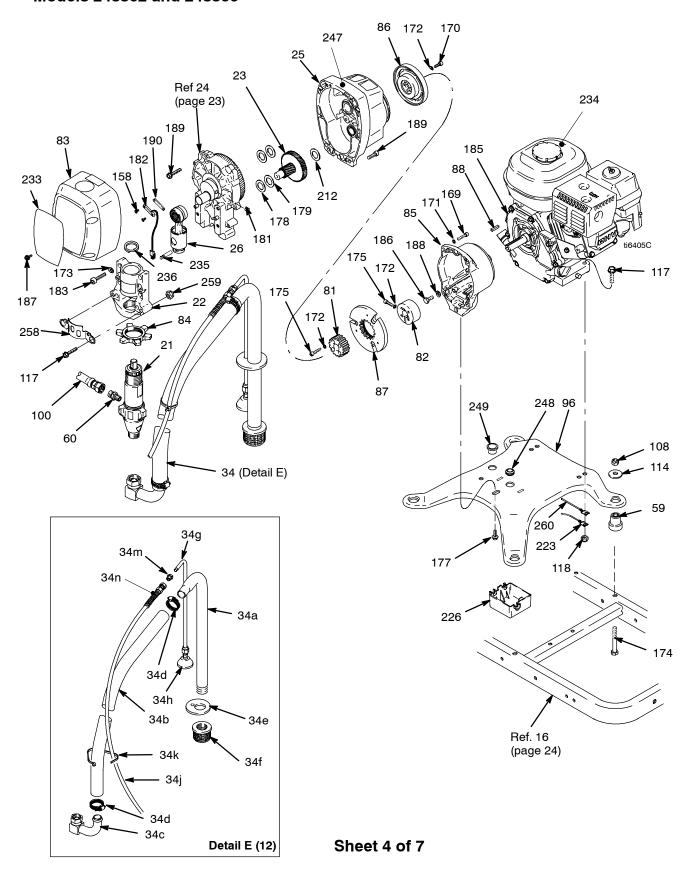
Pinion housing assembly (25) includes clutch field and connector

Sheet 2 of 7



Ref.				Ref.			
No.	Part No.	Description	Qty.	No.	Part No.	Description	Qty.
5	237686	WIRE, ground assembly		108	101566	NUT, lock	8
		w/ clamp	1	112	111145	KNOB, pronged	1
13	245225	HOSE, 3/8 X 50 ft	1	115	108868	CLAMP, wire	3
14	245798	HOSE, 1/4 X 7 ft	2	117	110837	SCREW, flange, hex	3
16	287623	FRAME, linestriper (painted)	1	120	255162	WHEEL, pneumatic	2
27	287417	HANDLE	1	121	111040	NUT, lock, insert, nylock, 5/16	3
28	287622	SUPPORT, handle (painted)	1	122	111194	SCREW, cap flang hd	2
33	287590	KIT, pail cover, includes 35	1	127	112405	NUT, lock	2
	240926	KIT, Euro pail cover, no 35	1	129	112798	SCREW, thread forming, hex hd	2
35	119771	STRAP, cover	2	134	113961	SCREW, cap, hex hd	1
51	193405	AXLE	1	141	241445	CABLE, caster	1
57	194310	LEVER, actuator	1	142	114648	CAP, dust	2
58	195134	SPACER, ball, guide	1	144	114659	GRIP, handle	2
60	196176	ADAPTER, nipple	1	148	114808	CAP, vinyl	1
66	287698	KIT, sensor, distance,	1	153	114982	SCREW, cap, flng hd	4
		includes 68,115, 129, 157		154	115077	PAIL, plastic	1
67	245734	GEAR, distance, includes 120	1	157	116287	WASHER, sst, external	1
68	198612	SHIELD, sensor, distance	1	158	114528	SCREW, mach, phillips, pnhd	2
70	198891	BRACKET, mounting	1	177	112395	SCREW, cap, flnghd	6
73	198930	ROD, brake	1	181	116618	MAGNET	1
74	198931	BEARING	1	182	119562	SWITCH, reed, with connector	1
91	189919	KIT, label, blank	2	220▲	15F638	LABEL, GMAX warning fire& skn	1
93	15F577	BRACE, left (painted)	1	232	15F545	LABEL, brand, handle	1
94	15F576	BRACE, right (painted)	1	264	120151	PLUG, tube	2
107	178342	CLIP	2				

## Models 248862 and 248866

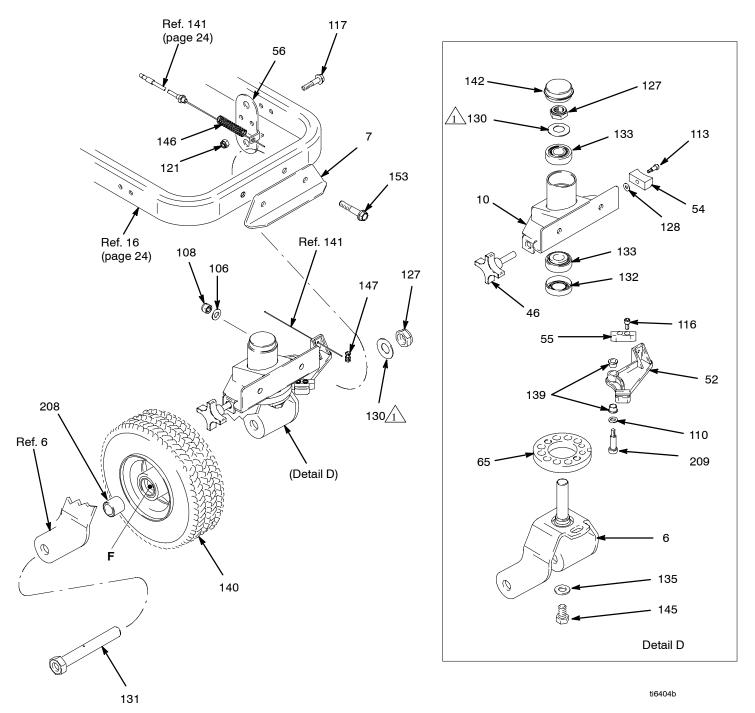


Ref.				Ref.			
No.	Part No.	Description	Qty.	No.	Part No.	Description	Qty.
21	277069	PUMP, displacement (3900)	1	169	119426	SCREW, hex washr hd (3900)	4
	277070	PUMP, displacement (5900)	1		102962	SCREW, cap sch (5900)	4
22	287714	HOUSING, bearing (3900)	1	170†	101682	SCREW, cap, sch	4
	287715	HOUSING, bearing (5900)	1	171	104008	WASHER, lock, spring (5900)	4
23	287653	GEAR, combination (3900)	1	172†	105510	WASHER, lock, spr (hi-collar)	10
	287460	GEAR, combination (5900)	1	173		WASHER, lock, spr (hi-collar)	
26‡	287719	ROD, connecting (3900)	1		100214	(3900)	4
	287720	ROD, connecting (5900)	1		106115	(5900)	4
34	245730	HOSE ASSEMBLY, drain	1	174	113743	SCREW, cap, hex hd	4
		(items 34a thru 34n)		175†	108803	SCREW, hex, socket head	6
34a	170957	TUBE, suction	1	177	112395	SCREW, cap, flnghd	1
34b	185381	HOSE	1	178	114672	WASHER, thrust	1
34c	110194	SWIVEL, 180°	1	179	114699	WASHER, thrust	1
34d	101818	CLAMP, hose	1	183	113467	SCREW, cap, soc hd (3900)	4
34e	15F513	GASKET, pail	1		114666	SCREW, cap, soc hd (5900)	4
34f	181072	STRAINER	1	185	108879	ENGINE, gas, 4.0 hp (3900)	1
34g	245731	TUBE, drain (includes diffuser)	1		114530	ENGINE, gas, 5.5 hp (5900)	1
34h	241920	DIFFUSER	1	186	108842	SCREW, cap, hex hd	4
34j	245798	HOSE, coupled, 1/4 in. x 7 ft	1	187	118444	SCREW, machine hex washer hd	4
34k	114958	STRAP, tie	2	188	100214	WASHER, lock	4
34m	196180	BUSHING	1	189	119426	SCREW, mach, hex washr hd (3900)	8
34n <b>▲</b>	195119	LABEL, warning	1		15C753	SCREW, mach, hex washr hd (5900)	6
59	119695	DAMPENER, engine mount	4	190	15F947	SHIELD, magnetic	1
60	196176	ADAPTER, nipple	1	212	15F250	WASHER, thrust (3900)	1
81†		HUB, armature	1		114672	WASHER, thrust (5900)	1
82	193680	COLLAR, shaft	1	223	119579	CONDUCTOR, ground (3900)	1
83	287521	COVER, front (3900)	1		240997	CONDUCTOR, ground (5900)	1
	287511	COVER, front (5900)	1	226	287695	BOX	1
84	192723	NUT, retaining (3900)	1	233	15F546	LABEL, brand (3900)	1
	193031	NUT, retaining (5900)	1		15F547	LABEL, brand (5900)	1
85	15E535	HOUSING, clutch (3900)	1	234▲	194126	LABEL, warning	1
	15E277	HOUSING, clutch (5900)	1	235		PIN, pump	
86†		ROTOR, clutch, 4 in. (3900)	1		15F855	(3900)	1
		ROTOR, clutch, 5 in. (5900)	1		15F856	(5900)	1
87†		ARMATURE, clutch, 4 in. (3900)	1	236‡	119676	SPRING, retaining (3900)	1
		ARMATURE, clutch, 5 in. (5900)	1		119778	SPRING, retaining (5900)	1
88	183401	KEY, parallel	1	247	290228	LABEL, caution	1
96	15F583	PLATE, engine mount	1	248	114629	GROMMET	1
100	245797	HOSE, 3/8 in. x 3.0 ft	1	249	119569	BUSHING	1
108	101566	NUT, lock	2	258	15C762	SHIELD, pump rod	1
114	108851	WASHER, plain	8	259	110996	NUT, hex	2
117	110837	SCREW, flange, hex	2	260	240997	CONDUCTOR, ground (5900)	1
118	110838	NUT, lock	2	▲ Rep	lacement wa	rning labels may be ordered free of charg	је
						b Donair Kita 241100 (2000) and 24111	

<sup>†</sup> Included in Clutch Repair Kits 241109 (3900) and 241113 (5900)

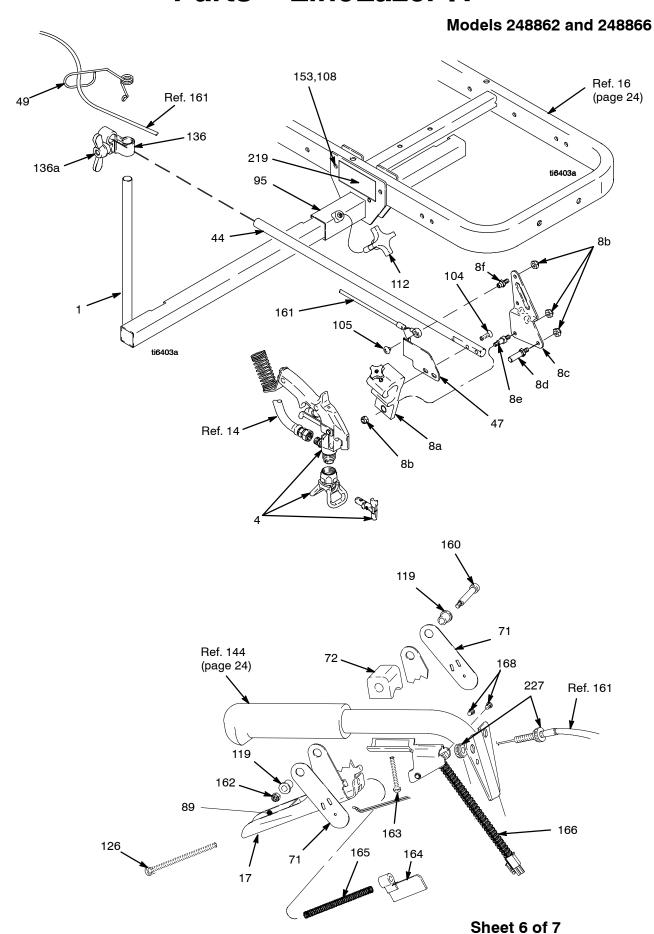
<sup>‡</sup> Included in Connecting Rod Kits

## Models 248862 and 248866

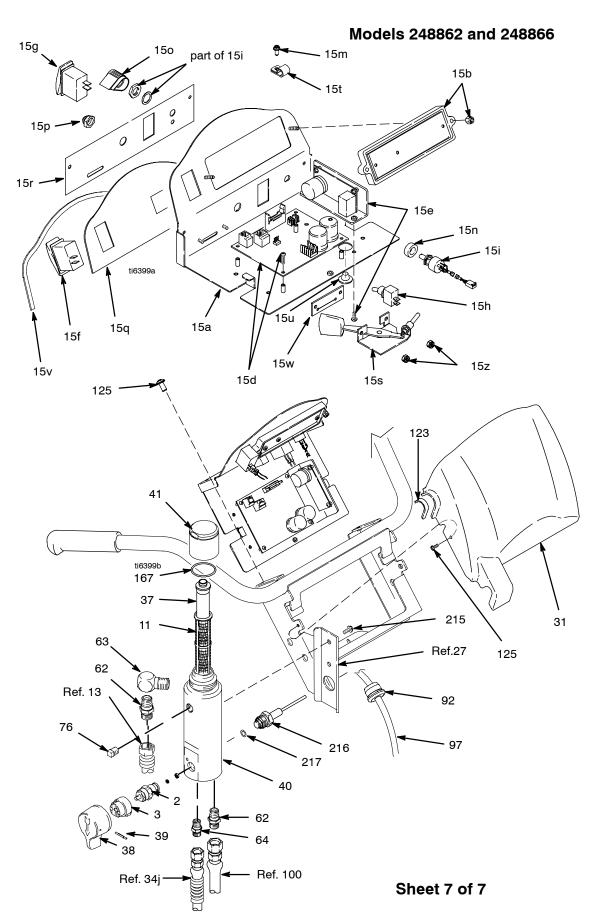


1 Install washers (130) concave surface to inside.

Ref.				Ref.			
No.	Part No.	Description	Qty.	No.	Part No.	Description	Qty.
6	240942	SHAFT, fork	1	128	112776	WASHER, plain	1
7	240991	BRACKET, caster, front	1	130	112825	SPRING, belleville	3
10*	15G952	BRACKET	1	131	113471	SCREW, cap, hex hd	1
46	181818	KNOB, pronged	1	132*	113484	SEAL, grease	1
52	193528	ARM, detent	1	133*	113485	BEARING, cup/cone	2
54	193661	JAW,	1	135	113962	WASHER, hardened, SAE	1
55	193662	STOP, wedge	1	139	114548	BEARING, bronze	2
56	15F910	BRACKET, cable	1	140	114549	WHEEL, pneumatic	1
65	198606	DISK, adjuster	1	142	114648	CAP, dust	1
106	100731	WASHER,	2	145	114681	SCREW, cap, hex hd	1
108	101566	NUT, lock	2	146	114682	SPRING, compression	1
110	15J603	WASHER, plain	1	147	114802	STOP, wire	1
113	108483	SCREW, shoulder, sch	1	153	114982	SCREW, cap, flng hd	2
116	110754	SCREW, cap, sch	2	208	193658	SPACER, seal	2
117	110837	SCREW, flange, hex	2	209*	120476	BOLT	1
121	111040	NUT, lock, insert, nylock, 5/16	2				
127	112405	NUT, lock	2	* Inclu	uded in 24094	40 Bracket Repair Kit; purchase sep	parately

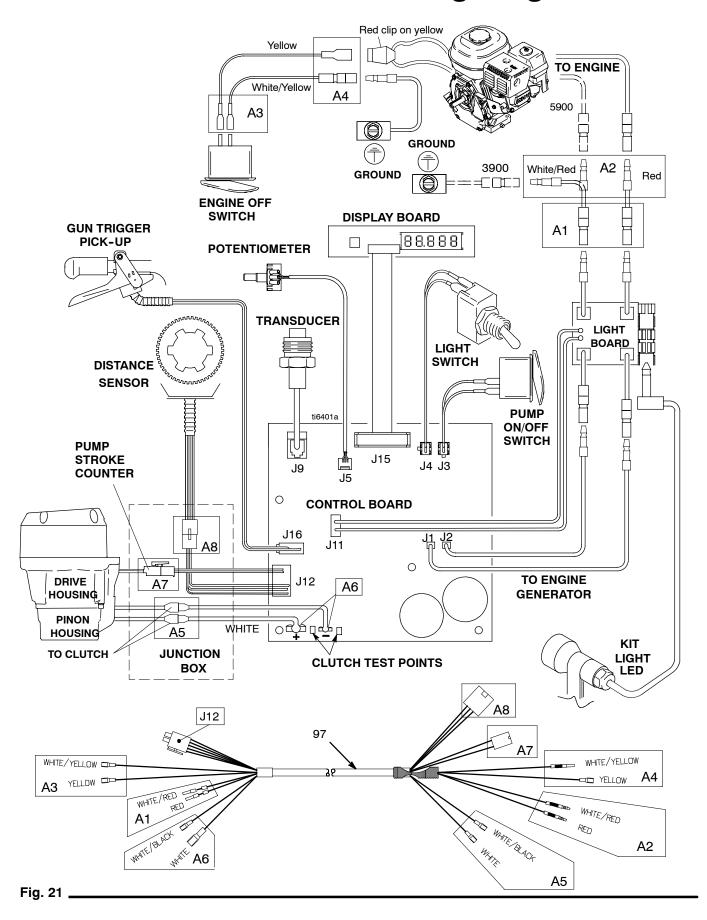


Part No.	Description (	Qty.	Ref. No.	Part No.	Description	Qty.
224052	•	1	105	119648	•	1
	, 11	1				2
		1			•	1
					· ·	2
287569	HOLDER, GUN	1	126*	112381		1
102040	NUT, lock	4	136	287566	KIT, clamp, includes 136a	1
15F214	LEVER, actuator	1	136a	114028	NUT, wing	1
15F209	STUD, pull, trigger	1	153	114982	SCREW, cap, flng hd	2
15F210	STUD, pivot	1	160	116941	SCREW, shoulder, socket head	1
15F211	STUD, cable	1	161	287696	CABLE, gun, includes 227	1
245733	KIT, trigger handle repair	1	162	116969	NUT, lock	1
	(includes items 17, 89, 126, 164 and		163	116973	SCREW, #10 taptite phil	1
	165)		164*	117268	BRACKET, interrupter	1
15F212	ARM, holder, gun	1	165*	117269	SPRING	1
15F213	BRACKET, cable	1	166	287699	SENSOR, trigger	1
188135	GUIDE, cable	1	168	117317	SCREW, plastite, pan head	2
198895	PLATE, lever, pivot	2	219▲	15F637	LABEL, GMAX warning skn injct	1
198896	BLOCK, mounting (mach)	1	227	15F624	NUT, cable, gun (knurled)	2
15A644	LABEL, trigger	1				
15F389	BRACKET, gun arm	1	* Includ	ded in Trigge	er Repair Kit 245733	
119647	SCREW, cap, socket, flthd	2				
	224052 248157 287570 287569 102040 15F214 15F209 15F210 15F211 245733 15F212 15F213 188135 198895 198896 15A644 15F389	224052 BRACKET, support gun 248157 GUN, flex, basic, includes guard & tip 287570 HOLDER ASSEMBLY, gun (items 8a thru 8f) 287569 HOLDER, GUN 102040 NUT, lock 15F214 LEVER, actuator 15F209 STUD, pull, trigger 15F210 STUD, cable 245733 KIT, trigger handle repair (includes items 17, 89, 126, 164 and 165) 15F212 ARM, holder, gun 15F213 BRACKET, cable 188135 GUIDE, cable 198895 PLATE, lever, pivot 198896 BLOCK, mounting (mach) 15A644 LABEL, trigger 15F389 BRACKET, gun arm	224052 BRACKET, support gun 1 248157 GUN, flex, basic, includes guard & tip 1 287570 HOLDER ASSEMBLY, gun 1 (items 8a thru 8f) 287569 HOLDER, GUN 1 102040 NUT, lock 4 15F214 LEVER, actuator 1 15F209 STUD, pull, trigger 1 15F210 STUD, cable 1 245733 KIT, trigger handle repair 1 (includes items 17, 89, 126, 164 and 165) 15F212 ARM, holder, gun 1 15F213 BRACKET, cable 1 188135 GUIDE, cable 1 198895 PLATE, lever, pivot 2 198896 BLOCK, mounting (mach) 1 15F389 BRACKET, gun arm 1	Part No.         Description         Qty.         No.           224052         BRACKET, support gun         1         105           248157         GUN, flex, basic, includes guard & tip         1         108           287570         HOLDER ASSEMBLY, gun         1         112           (items 8a thru 8f)         119         119           287569         HOLDER, GUN         1         126*           102040         NUT, lock         4         136           15F214         LEVER, actuator         1         136a           15F209         STUD, pull, trigger         1         153           15F210         STUD, pivot         1         160           15F211         STUD, cable         1         161           245733         KIT, trigger handle repair         1         162           (includes items 17, 89, 126, 164 and         163         163*           15F212         ARM, holder, gun         1         165*           15F213         BRACKET, cable         1         166*           188135         GUIDE, cable         1         168           198895         PLATE, lever, pivot         2         219	Part No.         Description         Qty.         No.         Part No.           224052         BRACKET, support gun         1         105         119648           248157         GUN, flex, basic, includes guard & tip         1         108         101566           287570         HOLDER ASSEMBLY, gun         1         112         111145           (items 8a thru 8f)         119         111017           287569         HOLDER, GUN         1         126*         112381           102040         NUT, lock         4         136         287566           15F214         LEVER, actuator         1         136a         114028           15F209         STUD, pull, trigger         1         153         114982           15F210         STUD, pivot         1         160         116941           15F211         STUD, cable         1         161         287696           245733         KIT, trigger handle repair         1         162         116969           (includes items 17, 89, 126, 164 and         163         116973         164*         117268           15F212         ARM, holder, gun         1         165*         117269           15F213         BRACKET, cable <td>Part No.         Description         Qty.         No.         Part No.         Description           224052         BRACKET, support gun         1         105         119648         SCREW, mach, trusshd           248157         GUN, flex, basic, includes guard &amp; tip         1         108         101566         NUT, lock           287570         HOLDER ASSEMBLY, gun         1         112         111145         KNOB, pronged (items 8a thru 8f)         119         111017         BEARING, flange           287569         HOLDER, GUN         1         126*         112381         SCREW, mach, pan hd           102040         NUT, lock         4         136         287566         KIT, clamp, includes 136a           15F214         LEVER, actuator         1         136a         114028         NUT, wing           15F209         STUD, pull, trigger         1         153         114982         SCREW, cap, flng hd           15F210         STUD, pivot         1         160         116941         SCREW, shoulder, socket head           15F211         STUD, cable         1         161         287696         CABLE, gun, includes 227           245733         KIT, trigger handle repair         1         162         116969         NUT, lock</td>	Part No.         Description         Qty.         No.         Part No.         Description           224052         BRACKET, support gun         1         105         119648         SCREW, mach, trusshd           248157         GUN, flex, basic, includes guard & tip         1         108         101566         NUT, lock           287570         HOLDER ASSEMBLY, gun         1         112         111145         KNOB, pronged (items 8a thru 8f)         119         111017         BEARING, flange           287569         HOLDER, GUN         1         126*         112381         SCREW, mach, pan hd           102040         NUT, lock         4         136         287566         KIT, clamp, includes 136a           15F214         LEVER, actuator         1         136a         114028         NUT, wing           15F209         STUD, pull, trigger         1         153         114982         SCREW, cap, flng hd           15F210         STUD, pivot         1         160         116941         SCREW, shoulder, socket head           15F211         STUD, cable         1         161         287696         CABLE, gun, includes 227           245733         KIT, trigger handle repair         1         162         116969         NUT, lock



Ref.				Ref.			
No.	Part No.	Description	Qty.	No.	Part No.	Description	Qty.
2*	239914	VALVE, drain	1	15z	109466	NUT, lock, hex	2
3*	224807	BASE, valve	1	31	15F589	COVER, control	1
11	244067	FILTER, fluid	1	37*	15C766	TUBE, diffusion	1
15a	15F272	PLATE, control	1	38*	15C780	HANDLE,	1
15b	287688	KIT, display board	1	39*	15C972	PIN, grooved	1
15d	287689	BOARD, control	1	40*	15H561	MANIFOLD, filter, 3/8 npt	1
15e	287690	BOARD, light	1	41*	287285	KIT, repair, filter cap, includes 37, 167	7 1
15f	114954	SWITCH, rocker	1	62*	196178	ADAPTER, nipple	2
15g	116752	SWITCH, rocker	1	63*	196179	FITTING, elbow, street	1
15h	119541	SWITCH, toggle	1	64	196181	FITTING, nipple	1
15i	241443	POTENTIOMETER KIT	1	76	15G331	PLUG, pipe	1
15m	116719	SCREW, 8-32, hx hd	3	92	111348	BUSHING, relief, strain	1
15n	198650	SPACER, shaft	1	97	15E910	WIRE, harness	1
150	116167	KNOB, potentiometer	1	123	15F814	GASKET	2
15p	195428	BOOT, toggle	1	125	116719	SCREW, 8-32, hex washer hd	5
15q	15F543	LABEL, control, top	1	167*	117285	PACKING, o-ring	1
15r	15F544	LABEL, control, bottom	1	215	111801	SCREW, cap, hex hd	2
15s	287692	KIT, control, throttle	1	216*	287172	TRANSDUCER, pressure control	1
15t	119736	CLAMP, cable	1	217*	111457	PACKING, o-ring	1
15u	119737	PLUG	1	A Dor	lacoment wa	rning labels may be ordered free of charg	<b>~</b>
15v	15F777	GASKET, control	1	▲ ueh	nacement wa	ining labels may be ordered liee or char	90
15w	15F776	GASKET, throttle	1	* Inclu	ded in Filter	Repair Kit 288100	

## **Pressure Control Wiring Diagram**



## **Technical Data**

Honda GX120 Engine Power Rating @ 3600 rpm ANSI	Maximum delivery LineLazer IV 3900
measured at 3.1 feet (1 m)	

## Dimensions

## LineLazer IV 3900

Model 248862, 249008 Striper	Model 248864 Striper with Bead				
Weight (dry, without packaging)       212 lb (96 kg)         Height       40 in. (101.6 cm)         Length       65 in. (165.1 cm)         Width       32 in. (81.3 cm)         Model 248863, 249009 Striper with 2nd Gun Kit	Weight (dry, without packaging)       212 lb (96 kg)         Height       40 in. (101.6 cm)         Length       65 in. (165.1 cm)         Width       32 in. (81.3 cm)         Model 248865 Striper 2nd Gun Kit with Bead				
Weight (dry, without packaging)	Weight (dry, without packaging)       222 lb (101 kg)         Height       40 in. (101.6 cm)         Length       65 in. (165.1 cm)         Width       32 in. (81.3 cm)				
LineLazer IV 5900					
Model 248866, 249010 Striper	Model 248868 Striper with Bead				
Weight (dry, without packaging)	Weight (dry, without packaging)				
Weight (dry, without packaging)       242 lb (110 kg)         Height       40 in. (101.6 cm)         Length       65 in. (165.1 cm)         Width       32 in. (81.3 cm)	Weight (dry, without packaging)       242 lb (110 kg)         Height       40 in. (101.6 cm)         Length       65 in. (165.1 cm)         Width       32 in. (81.3 cm)				

## **Graco Standard Warranty**

Graco warrants all equipment manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non–Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

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

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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.

Graco makes no warranty, and disclaims all implied warranties of merchantability and fitness for a particular purpose in connection with accessories, equipment, materials or components sold but not manufactured by Graco. These items sold, but not manufactured by Graco (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

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

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#### ADDITIONAL WARRANTY COVERAGE

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

## **Graco Information**

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

All written and visual data contained in this document reflects the latest product information available at the time of publication.

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

GRACO INC. P.O. BOX 1441 MINNEAPOLIS, MN 55440-1441 www.graco.com
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