

## LineLazer™ 130HS Airless Line Stripers

3A3392C  
EN

**For the application of line striping materials.**  
**For professional use only.**  
**For outdoor use only.**  
**Not for use in explosive atmospheres or hazardous locations.**

Maximum Operating Pressure: 3300 psi (22.8 MPa, 228 bar)

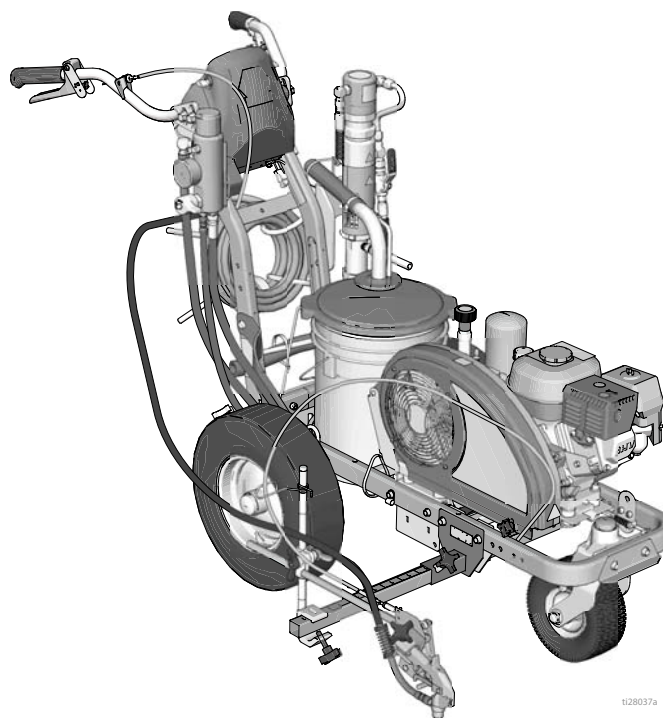


### Important Safety Instructions

Read all warnings and instructions in this manual and in related manuals.  
 Be familiar with the controls and the proper usage of the equipment.  
 Save these instructions.

LineLazer 130HS		
Model:	Standard 1 Manual Gun	Standard 2 Manual Guns
17H447	✓	
17H448		✓

Related Manuals:	
3A3391	Parts
311254	Gun
311845	Pump



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



# Maintenance

## LineLazer 130HS

### Periodic Maintenance

**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 prime/spray drain valve for proper operation.

**DAILY:** Check and fill gas tank

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

**DAILY:** Top off TSL level in displacement pump packing nut to help prevent material buildup on piston rod and early wear of packing.

**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, if necessary. If operating in an unusually dusty environment, check filter daily.

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

**AFTER EACH 100 HOURS OF OPERATION:** Change engine oil. Reference Honda Engines Owner's Manual for correct oil viscosity.

**SEMI-ANNUALLY:** Check belt wear, replace if necessary.

**YEARLY OR 2000 HOURS:** Replace hydraulic oil and filter element with Graco hydraulic oil 169236 (5 gallon/18.9 liter) or 207428 (1 gallon/3.8 liter) and filter element 246173; page 21.

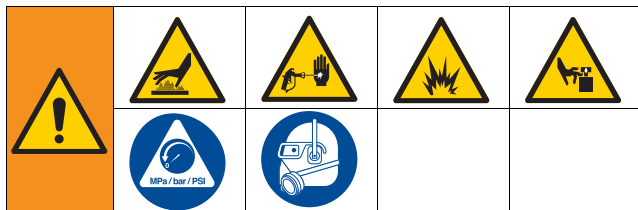
**SPARK PLUG:** Use only BPR6ES (NGK) or W20EPR--U (NIPPONDENSO) plug. Gap plug to 0.028 to 0.031 in (0.7 to 0.8 mm). Use spark plug wrench when installing and removing plug.

### Caster Wheel

1. Once each year, tighten nut under dust cap until spring washer bottoms out, then back off the nut 1/2 to 3/4 turn.
2. Once each month, grease the wheel bearing.
3. Check pin for wear. If pin is worn out, there will be play in the caster wheel. Reverse or replace the pin as needed.
4. Check caster wheel alignment as necessary. To align; page 16.



# Troubleshooting



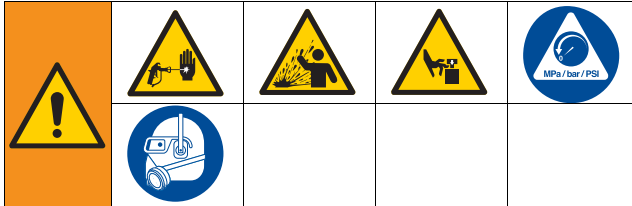
Problem	Cause	Solution
Gas engine pulls hard (won't start).	Hydraulic pressure is too high.	Turn hydraulic pressure knob counterclockwise to lowest setting.
Engine won't start.	Engine switch is OFF.	Turn engine switch ON.
	Engine is out of gas.	Refill gas tank. Honda Engines Owner's Manual.
	Engine oil 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 displacement pump does not operate.	Pump valve is OFF.	Turn pump valve ON.
	Pressure setting is too low.	Turn pressure adjusting knob clockwise to increase pressure.
	Fluid filter is dirty.	Clean filter.
	Tip or tip filter is clogged.	Clean tip or tip filter. Manual 311254.
	Displacement pump piston rod is stuck due to dried paint.	Repair pump. Manual 311845.
	Belt worn, broken or off pulley.	Replace.
	Hydraulic fluid too low.	Shut of sprayer. Add fluid*.
Displacement pump operates, but output is low on upstroke	Hydraulic motor not shifting.	Set pump valve OFF. Turn pressure down. Turn engine OFF. Pry rod up or down until hydraulic motor shifts.
	Piston ball is not seating.	Service piston ball. Manual 311845.
Displacement pump operates but output is low on downstroke and/or on both strokes.	Piston packings are worn or damaged.	Replace packings. Manual 311845.
	Strainer is clogged.	Clean strainer.
	O-ring in pump is worn or damaged.	Replace o-ring. Manual 311845.
	Intake valve ball is packed with material or is not seating properly.	Clean intake valve. Manual 311845.
	Engine speed is too low.	Increase throttle setting.
	Suction tube air leak.	Tighten suction tube.
	Pressure setting is too low.	Increase pressure.
	Fluid filter, tip filter or tip is clogged or dirty.	Clean filter.
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 (22 ft minimum).	

\*Check hydraulic fluid level often. Do not allow it to become too low. Use only Graco approved hydraulic fluid.

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
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. Manual 311845.
	Paint is too thick.	Thin the paint according to the supplier's recommendations.
	Engine speed is too high.	Decrease throttle setting before priming pump.
High engine speed at no load.	Mis-adjusted throttle setting.	Reset throttle to 3700-3800 engine rpm at no load.
	Worn engine governor.	Replace or service engine governor.
Low stall or run pressure shown on display.	New pump or new packings.	Pump break-in period takes up to 100 gallons of material.
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. Manual 311845.
	Displacement rod is worn or damaged.	Replace rod. Manual 311845.
Fluid is spitting from gun.	Air in pump or hose.	Check and tighten all fluid connections. Reprime pump.
	Tip is partially clogged.	Clear tip. Manual 311254.
	Fluid supply is low or empty.	Refill fluid supply. Prime pump. Check fluid supply often to prevent running pump dry.
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.
	Oil level is low.	Fill with oil.
Excessive hydraulic pump noise.	Low hydraulic fluid level.	Shut off sprayer. Add fluid*

# Hydraulic Oil/Filter Change

## Removal

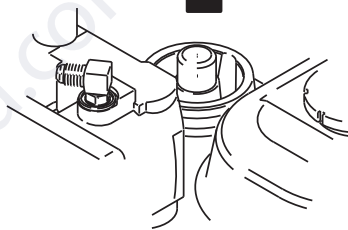


This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as skin injection, splashing fluid and moving parts, follow the Pressure Relief Procedure when you stop dispensing and before cleaning, checking, or servicing the equipment.

1. Perform **Pressure Relief Procedure**, page 8.
2. Place drip pan or rags under sprayer to catch hydraulic oil that drains out.
3. Remove drain plug. Allow hydraulic oil to drain.
4. Unscrew filter slowly - oil runs into groove and drains out rear.

## Installation

1. Apply a light film of oil on filter gasket. Install drain plug and oil filter. 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.



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# Technical Data

<b>LineLazer 130HS</b>		
Engine	Honda GX120cc	
	<b>US</b>	<b>Metric</b>
Maximum fluid working pressure	3300 psi	(227 bar, 22.7 MPa)
Maximum free-flow delivery	1.3 gpm	4.9 lpm
Cycles per gallon/liter	85 cpg	22.5 cpl
Hydraulic reservoir capacity	1.25 gallons	(4.73 liters)
Hydraulic pressure	1825 psi	(124 bar)
<b>Maximum Tip Size</b>		
1 gun	0.037 in.	
2 guns	0.029 in.	
<b>Noise level (dBa)</b>		
Sound power	110 dBa per ISO 3744	
Sound pressure	96 dBa measured at 3.1 feet (1m)	
<b>Vibration level*</b>		
Left Hand	2.90 m/sec <sup>2</sup>	
Right Hand	2.83 m/sec <sup>2</sup>	
* Vibration measured per ISO 5349 based on 8 hr daily exposure		
<b>Inlet/Outlet Sizes</b>		
Inlet paint strainer	16 mesh (1190 micron) stainless steel screen, reusable	
Outlet paint filter	50 mesh (250 micron) stainless steel screen, reusable	
Pump inlet size	1 in. npsm(m)	
Fluid outlet size	3/8 npt(f)	
<b>Dimensions/Weight</b>		
Height	44.5 in.	113.03 cm
Length	68.25 in.	173.36 cm
Width	34.25 in.	87.0 cm
Weight (dry, without packaging)	263 lb	119 kg

Wetted parts...PTFE, Nylon, polyurethane, V-Max™ leather, tungsten carbide, stainless steel, chrome plating, nickel-plated carbon steel, ceramic

## California Proposition 65

### CALIFORNIA RESIDENTS

 **WARNING:** Cancer and reproductive harm – [www.P65warnings.ca.gov](http://www.P65warnings.ca.gov).



# Graco Standard Warranty

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

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

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

**THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.**

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

**GRACO MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY GRACO.** These items sold, but not manufactured by Graco (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

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

## Graco Information

For the latest information about Graco products, visit [www.graco.com](http://www.graco.com).

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

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

*All written and visual data contained in this document reflects the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice.*

Original instructions. This manual contains English. MM 3A3392

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