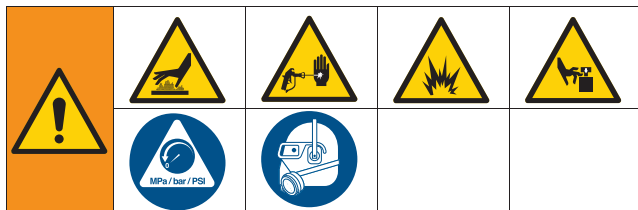


Troubleshooting



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.

Problem	Cause	Solution
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*