

SPLM2000

LINE STRIPER



Operating manual

Warning

The following warnings include general safety information for this equipment. Further product specific warnings may be included in the text where applicable.

 **WARNING**

	<p>FIRE AND EXPLOSION HAZARD</p> <p>Flammable fumes, such as solvent and paint fumes, in work area can fire or explode.</p> <p>To help prevent fire and explosion.</p> <ul style="list-style-type: none"> • Use only in an extremely well-ventilated area. • Do not fill fuel tank while engine is running or hot should shut down the engine and makes it cooler. • Eliminate all ignition sources; such as pant lights, cigarettes and plastic drop cloths (static arc hazard). • Ground equipment and conductive objects in work area. Read Grounding instructions • Do not spray or clean solvent under high pressure. • Keep work area free of debris, indudln9 solvent, rags. and gasoline • Do not plug or unplug power cords or lights on or off when flammable fumes are present. • 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. <p>Do not use equipment until you identify and correct the problem</p> <ul style="list-style-type: none"> •Keep effective Ire extinguisher in work area.
	<p>INJECTION HAZARD</p> <ul style="list-style-type: none"> • High pressure fluid from gun, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is serious injury that can result in amputation. <p>Get immediate surgical treatment.</p> <ul style="list-style-type: none"> • Do not point the gun at anyone or at any part of the body. • Do not slop or deflect leaks with your hand, body, glove or rag. • Do not spray without tip guard and trigger guard installed. • Follow Pressure Relief Procedure in this manual when you stop spraying and before cleaning, checking or servicing equipment. • Equipment keep pressure after cutting off power. When unattended, do not leave the equipment in power or pressure. • Check hoses, tubes, and couplings daily Replace worn or damaged parts immediately. • Do not use components rated less than sprayer Maximum Working Pressure 3300PSI. • Engage trigger lock when not spraying. • Tighten all fluid connections before operating the equipment.
 WARNING	
	<p>CARBON MONOXIDE HAZARD</p> <ul style="list-style-type: none"> •Exhaust contains poisonous canton monoxide, which is colorless and odorless. •Breathing carbon monoxide can cause death.
	<p>BURN HAZARD</p> <ul style="list-style-type: none"> •Equipment surfaces and fluid that's heated can become very hot during operation. <p>To avoid severe burns</p> <ul style="list-style-type: none"> •Do not touch hot fluid or equipment

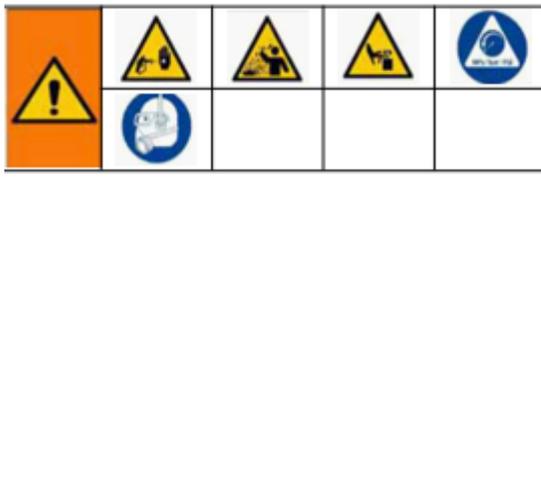
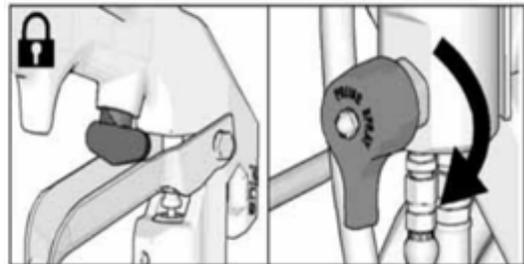
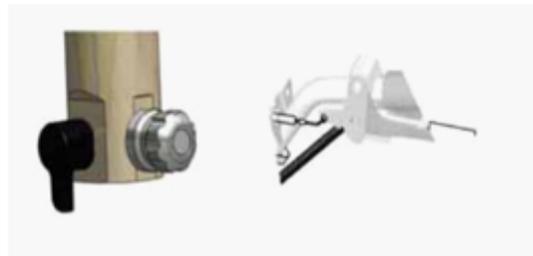
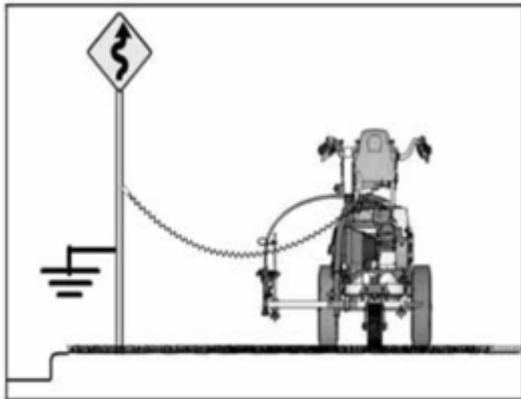
 	<p>EQUIPMENT MISUSE HAZARD</p> <p>Misuse can cause death or serious injury.</p> <ul style="list-style-type: none"> • Do not use equipment when tired or drinking alcohol. • Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. Read Technical Data in all equipment manuals. • Use fluids and solvents that are compatible with equipment wetted parts. Read Technical Data in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request MSDS from distributor or retailer. • Do not leave the equipment in power or pressure when unattended. • Check equipment daily. Repair or replace worn or damaged parts immediately. • Follow Pressure Relief Procedure in this manual, when you stop spraying. • Check hoses, tubes, and couplings daily. Replace worn or damaged parts immediately. • Do not alter or modify equipment may lead to agency certification failure and cause safety hidden trouble. • Ensure all equipment has been rated and certified and can available for your work area. • Use equipment only for its intended purpose. Call your distributor for information. • Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces. • Do not kink or over bend hoses or use hoses to pull equipment.
	<p>PRESSURIZED ALUMINUM PARTS HAZARD</p> <ul style="list-style-type: none"> • Do not use 1,1,1-trichloroethane, methylene chloride, and/or 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/or property damage.
 WARNING	
 	<p>MOVING PARTS HAZARD</p> <p>Moving parts can pinch or amputate fingers and other body parts.</p> <ul style="list-style-type: none"> • 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.
	<p>TOXIC FLUID OR FUMES HAZARD</p> <p>Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed.</p> <ul style="list-style-type: none"> • Read MSDS's to know the specific hazards of the fluids you are using. • Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines

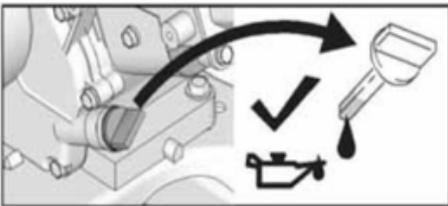
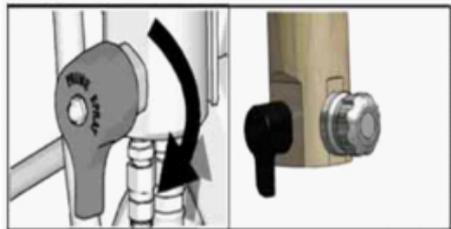
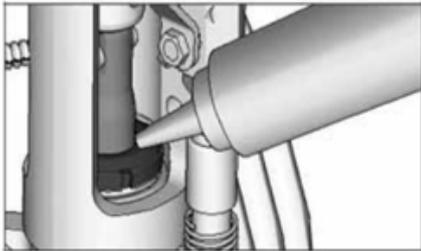
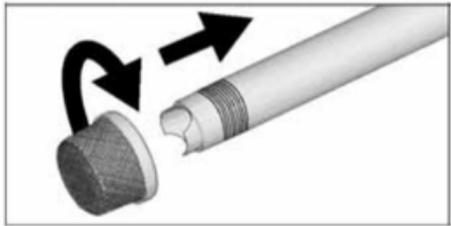
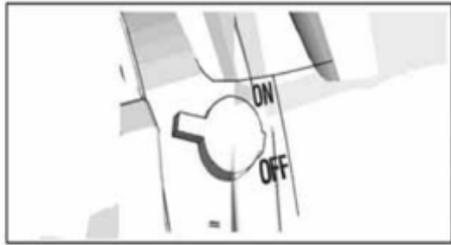
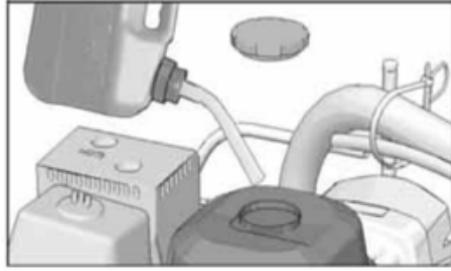


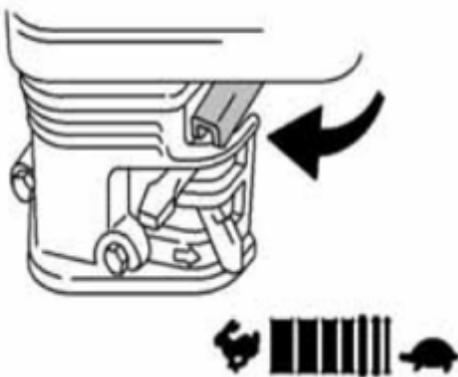
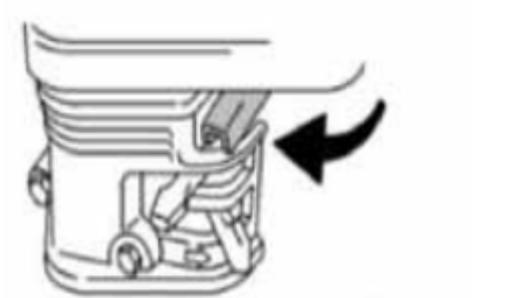
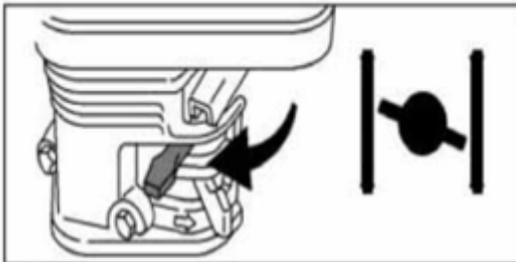
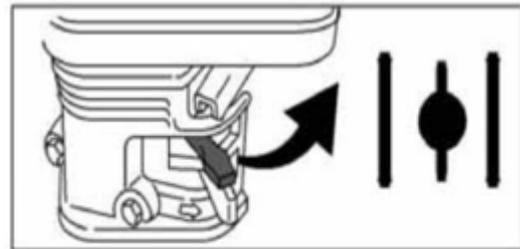
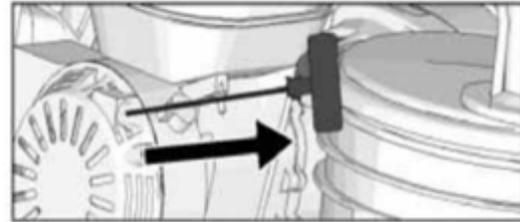
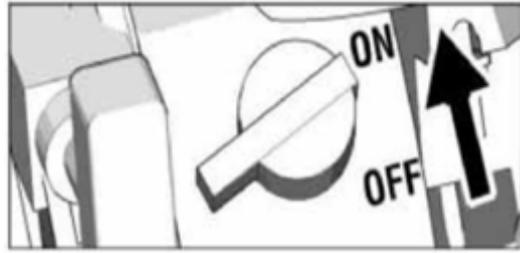
PERSONAL PROTECTIVE EQUIPMENT

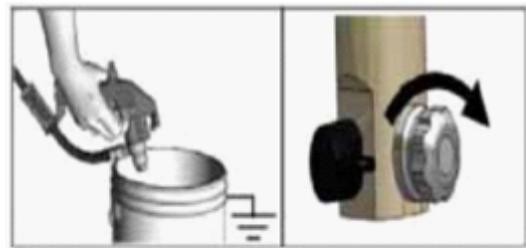
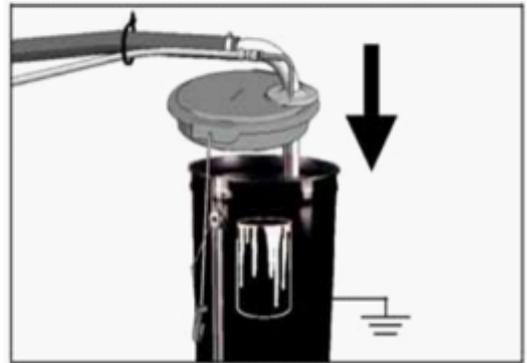
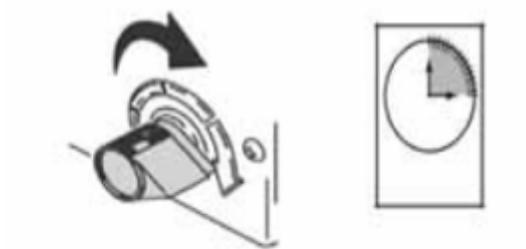
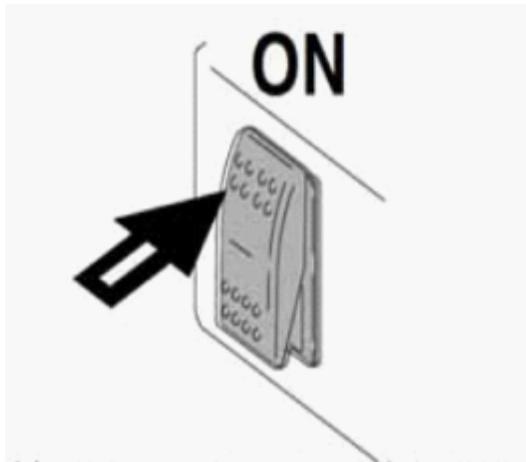
You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, including eye injury, inhalation of toxic fumes, burns, and hearing loss. This equipment includes but is not limited to:

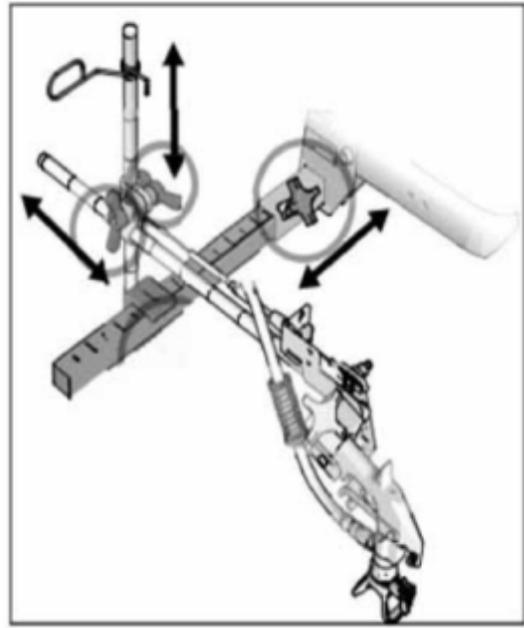
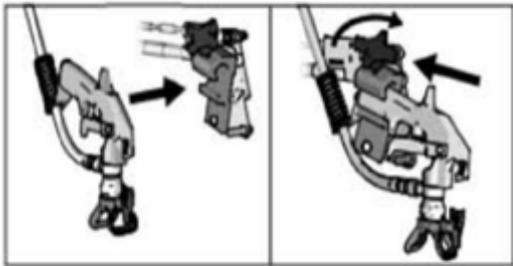
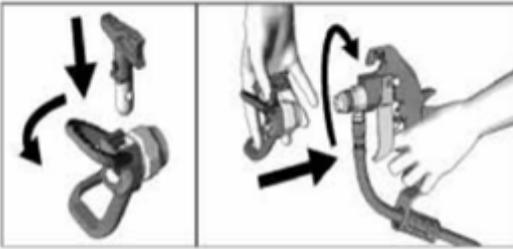
- Protective eyewear
- Clothing and respirator as recommended by the fluid and solvent manufacturer

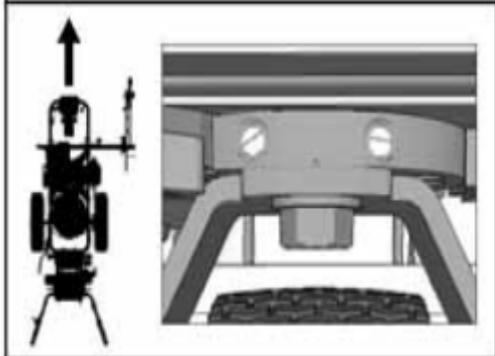
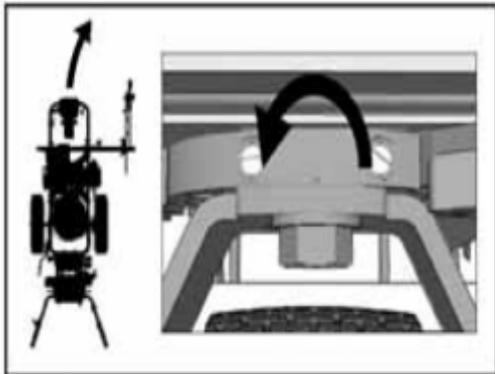
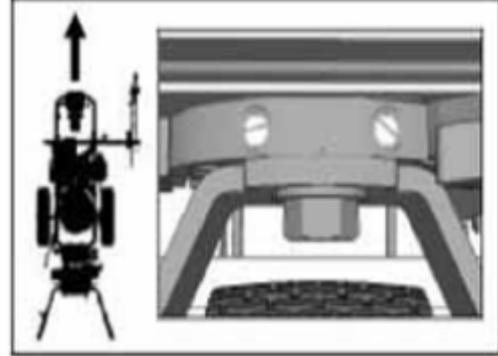
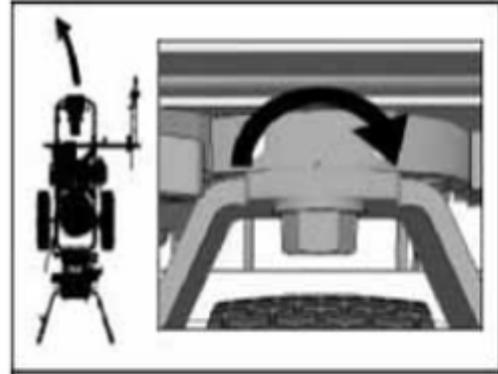


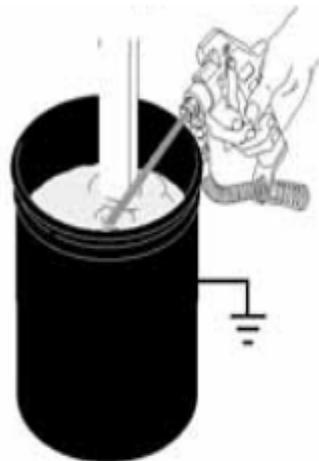












FLUSH

Maintenance

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
DAILY: Check level of TSL in displacement pump packing nut.
Fill out if necessary. Keep TSL in nut to help prevent, fluid buildup on piston rod and premature wear of packing 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

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

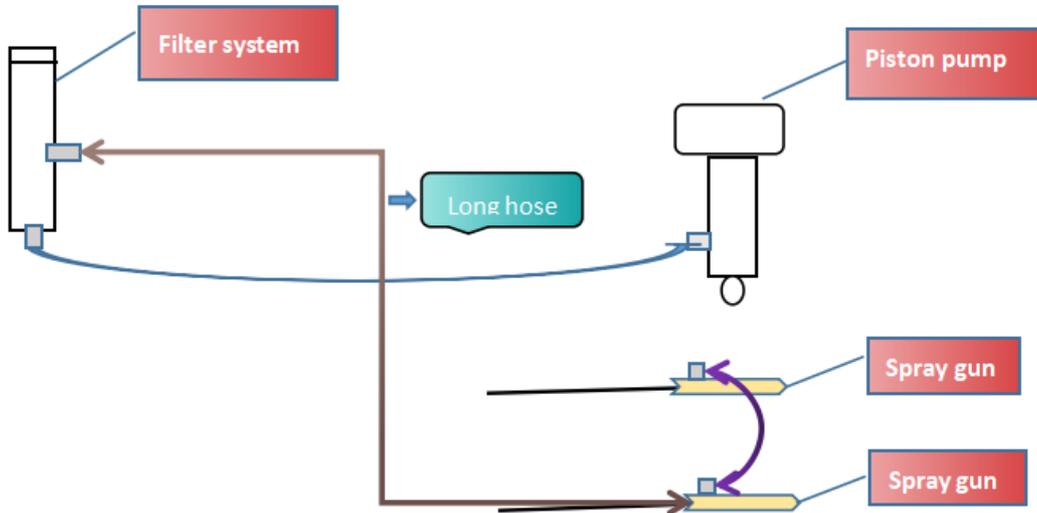
SPARK PLUG: Use only BPR6ES (NGK) or W2OEPR-U (NIPPONDENSO) plug. Gap plug to 0.028 to 0.031 in. (0.7 to 0.8 mm), Use spark plug wrench when installing and removing plug.

Attention:

Please do not arbitrarily change the assembly of each part of the machine , especially do not remove or disassemble the long hose rolled up at the rack on the machine, otherwise the pulse is too large, the spraying pressure will be abnormal, and the pressure sensor / pressure gauge / spraying pipe and other accessories are easy to be damaged, which may cause injury.

This Road Marking Machine is designed to spray with two guns, but also can be used with only one gun by close or remove the gun which does not connect to the long hose rolled up at the rack directly and change the nozzle to 0.021" for spraying.

The blue high-pressure hoses on the machine should be installed according to the following figure:



One end of the long hose that rolled up at the rack should be connected to the return system (filter system), and the other end connected to one of the spray guns.

Troubleshooting

Problem	Cause	Solution
---------	-------	----------

Engine will not start	Engine switch is OFF	Turn engine switch ON
	Engine is out of gasoline	Refill gas tank. Honda Engines Owner's Manual
	Engine oil level is low	Check oil level. Replenish oil, if necessary. Honda Engines Owner's Manual
	Spark plug 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 switch is OFF	Turn pump switch ON
	Pressure setting 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
	Displacement pump piston rod is stuck due to dried paint	Repair pump
Displacement pump is operating but the pump output is low	Piston ball is not seating	Service piston ball.
	Piston packing are worn or damaged	Replace packing.
	Manifold is clogged	Clean manifold
	O-ring in pump is worn or	Replace O-ring
	Intake valve ball is packed with material or not seating properly	Clean intake valve
	Engine speed is too low	Increase throttle setting
	Suction tube is loose	Tighten suction tube
	Pressure setting is too low	Increase pressure
	Fluid filter, tip filter or tip is clogged or dirty	Clean filter
	Large pressure drops in hose with heavy materials	Use larger diameter hose and/or reduce overall length of hose.

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 packing are worn	Replace pump packing
	Paint is too thick	Thin the paint according to the supplier's recommendations
High engine speed at no load	Worn engine governor	Replace or service engine governor
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 packing are worn or damaged	Replace packing
Fluid is spitting from gun	Air in pump or hose	Check and tighten all fluid connections. Reprise pump
	Tip is partially clogged	Clear tip
	Fluid supply is low or empty	Refill fluid supply. Prime pump. Check fluid supply often to prevent running pump dry

Technical data

SPLM2000		
Engine	Ludwig <input type="checkbox"/> Honda <input type="checkbox"/>	
Maximum working pressure	3045Psi	210bar
Maximum delivery	5.0 liter/min	
Maximum tip size	0.023" @2 gun	
Engine	6.0HP	
When use only 1 gun	Replace the nozzle to 0.021"	