

Sprinkler Pump

Starting Instructions

HOW TO START YOUR SPRINKLER PUMP ON PROPANE

- 1) Check your oil level on the dip stick (The pump is designed not to run if you are low on oil or if the pump is not level)
- 2) Open the valve on the top of the propane tank (Check to make sure that the gasoline shut off valve is on off)
- 3) Turn the on/off switch on the pump engine to on
- 4) Choke lever should always be open on propane.
- 5) Set the throttle lever to high (the rabbit setting on some pumps)
- 6) Push the primer button on the regulator for 10 seconds. You should hear gas flowing through the regulator.
- 7) Pull the starter cord. The pump should start by the third pull
- 8) The best way to turn the pump off on propane is to simply turn the valve on the propane tank off and let the engine run out the propane in the line.

HOW TO START YOUR SPRINKLER PUMP ON GASOLINE

- 1) Check your oil level on the dip stick
- 2) Turn gasoline shut off lever to open. Always use premium grade gasoline. If your gas will be sitting unused for over a month add Sea Foam or Stabyl additive to the fuel.
- 3) Turn the on/off switch on the pump engine to on
- 4) Set the throttle to 1/3
- 5) You should set the choke lever to choke (closed) when first starting the pump. If the pump has been recently running you may set the choke at 1/2 or less.
- 6) Pull the starter cord. The pump should start by the third pull
- 7) The best way to turn off the pump on gasoline is to decrease the throttle to full off and then turn the on/off switch to off

TROUBLE SHOOTING

Engine won't start on gasoline

- 1) Check fuel - use premium gas and make sure there is no water in it. If the gas is old (more than 1 year) you may have to drain it and use fresh fuel.
- 2) Check to see that the gasoline fuel shut off is open
- 3) Check fuel supply line for leaks.
- 4) If you should happen to flood the engine you will have to wait 10 minutes or so for the gas to drain from the cylinders
- 5) If engine will start on propane do so and then switch to gasoline while running

Engine won't start on propane

- 1) Make sure propane tank has fuel and valves are open.
- 2) When you depress the primer on the regulator make sure you can hear propane passing through (hissing sound)
- 3) Choke should be in open position (propane passes through choke opening to the engine)
- 4) There is an adjustment bolt along the propane supply. This is generally set at the optimum position during installation. Occasionally this can loosen so check to see that it is secure.
- 5) There is a vent hole on the side of the regulator. Bugs can plug this hole with mud causing problems

Other engine starting issues

- 1) Engine won't start if oil level is low.
- 2) Engine won't start if it is not on level ground.
- 3) Occasionally the oil shut off sensor may malfunction. Many engines have a visible wire that can be removed from the sensor. Disconnect the wire and try again. Remember to reconnect the wire to see if problem has been solved.

Pump won't pump water

- 1) Make sure the pump is properly primed.
- 2) Make sure there are no air leaks along the intake supply line including the connections at the pump.
- 3) Make sure the intake is submerged and that the screen is clear of debris.
- 4) Many times it takes longer than expected to fill the supply line to the pump. You should be able to visibly see the line (if it is flexible) fill or you can lift on the line to feel it getting heavier with water.
- 5) If the pump has processed water with sand and debris, it could plug the vanes internally and they need to be cleaned. This is rare but possible.