Rush Fire District

# **Pump Operation Guide for GF-587**

**Start-up procedure:**

- Pull out the <u>choke</u>.
- Move the <u>throttle</u> to the half way position.
- Turn the <u>key</u> forward to start position.
- When the engine starts, push the <u>choke</u> back in.

**Priming of the pump:**

- Open <u>Primer Valve</u>.
- Make sure the <u>Circulating Line Valve</u> is closed.
- Lift <u>Primer Pump handle</u> up and push back down 3-5 times until water discharges from the Primer and some resistance is felt.
- Close the <u>Primer Valve</u>.
- Open the <u>Circulating Line Valve</u> to circulate water from the pump back into the tank (this will keep the pump cool).

**Pumping of water:**

1) Connect hose to one or both of the two discharges (gated wye).
2) Increase the throttle to increase the pressure. If the pressure fails to increase, check to make sure that the pump is primed.
3) 100 -150 psi will usually be enough pressure to accomplish most tasks.
4) If necessary, because of long hose stretches, the pressure may be increased (remember, we are utilizing 1" forestry hose and friction loss is high. 1.75" hose may be utilized from the pump to the 1" hose on long stretches to reduce friction loss).

**<u>Be careful</u>**, high pressures can damage pumps. Even with

the circulating valve open, it will not move enough water to keep the pump cool at high pressures when the nozzle is not flowing water.

**Pro Pak Foam Unit:**

- Connect the hoseline to the Pro Pak Foam Unit.
- Follow the directions on the unit to start up the unit and to shut it down and flush it.
- The unit can be utilized on any 1" or 1 ½" coupling.
- Multiple types of foam can be used in the unit.  Follow the instructions and adjust the unit for the foam to be used.

**Tank Filling:**

- Connect the supplied 1 ¾" hose from the "gated" tank fill valve to a water supply.
- The hose pressure filling the tank should not exceed 75 psi. 50 psi is adequate.
- The tank capacity is 150 gallons.

**Pump Stats:**

| PSI | 50 | 100 | 150 | 200 | 250 | 300 |
|-----|-----|-----|-----|-----|-----|-----|
| **GPM** | 120 | 110 | 100 | 80 | 50 | 23 |

**The pump runs on unleaded gasoline.**

Prepared by Past Chief Dale Sweet, March 8th, 2016