

**Starting Instructions - Extremely important, if not followed, package can and or will be damaged.**



**Perform walk around from the same place every time**

**Check Fluids daily:**

**Engine oil**

**Pump oil**

**Lubricator System**

**Grease PTO bearing slightly. Marked with white arrow. Other Zerks do not grease. Grease slightly at 250 hour service**



**Before Starting the follow must be in the proper position:**  
**PTO must be in the disengaged position**



Bypass valve must be in the open position



**Notice Unit will not start without 30PSI head Pressure at fluid end**



**Handle facing down. Insures pump will not start loaded.**

**Control System Starting Instructions - Must be followed or engine will not run. Suction side of pump must have at minimum 30PSI of pressure for the unit to start.**



### **Starting Procedure:**

- 1. Ensure 30 PSI of head pressure on suction fluid end**
- 2. Ensure PTO is not engaged**
- 3. Ensure bypass valve is open**
- 4. 30 PSI pressure at suction side of fluid end is present.**
- 5. Start engine, move switch to run**
- 6. Allow at least 5 minutes to warm up.**
- 7. Engage PTO. Make sure PTO is locked in.**



8. Run engine up to 1200 RPM,  
*Watch for excessive pressures and make sure you are not exceeding site parameters*
9. Check for excessive vibration
10. Run engine up to 1200 RPM
11. Close bypass valve slowly, handle facing down must now be facing horizontal, **watch pressure to ensure pressure does not exceed site maximums or 1000 PSI.**



### Shutting down unit.

1. Slow engine down to 1000 RPM
2. Disengage PTO
3. Open bypass valve slowly, handle facing down
4. Allow engine to cool down, turn engine off.

**Customer is responsible for all damages to package due to lack of following the above instructions.**