**Fimco Pressurized 30-gal Sprayer with Mixer (LG-30-SM) WO#771119**

Equipment

* Tank, 15’ pressure hose, and spray gun purchased in 2021
* Additional 100-ft pressure hose purchased in 2018
* Repair and spare part kits (contains pump, replacement gasket kit, washers, battery connectors, Teflon tape, fuses, multi-tool, hose clamps, socket driver, etc)
* 12-v automotive tractor or marine type battery and battery charger
* Boom Bucket and/or PVC Boom

Operation

1. Charge 12-v battery before operating spray tank.
2. Before filling tank, check the tank condition.
   1. Is the tank clean? No visible cracks?
   2. Is the hose in good condition? No visible cracks?
   3. Check hose filter at bottom of tank to ensure it is clean.
      1. Filter is inline after a value regulating flow from the tank to the pump, mixer and spray handgun or boom.
      2. Use small flat head screwdriver to carefully (no nicks) pry filter from hose.
      3. Fitting is tight, will require some force to reseat.

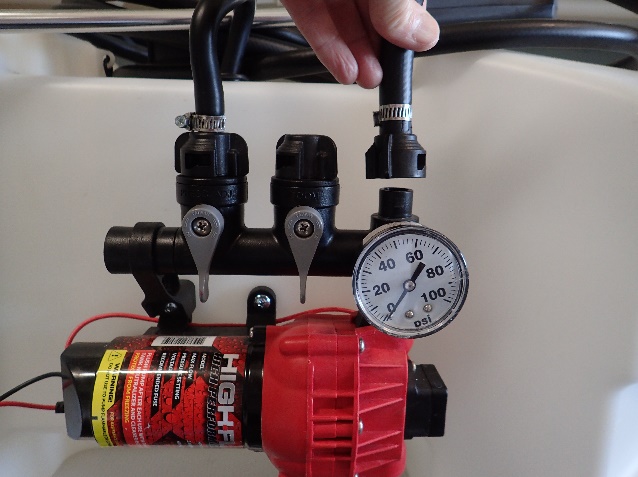


* + 1. Make sure the value is ‘open’ or turned to be in-line with hose prior to turning on mixer or pump will not get fluid and may squeal or make other noises.

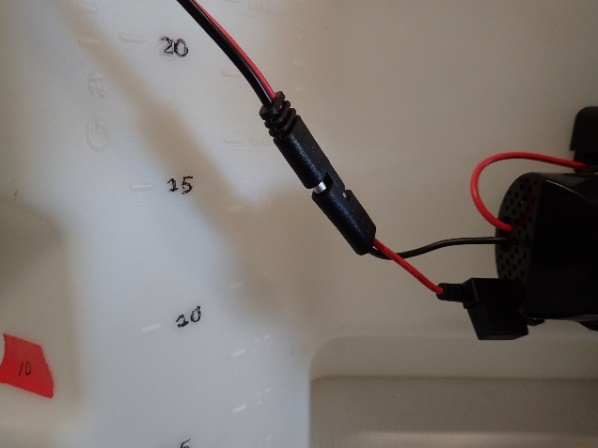
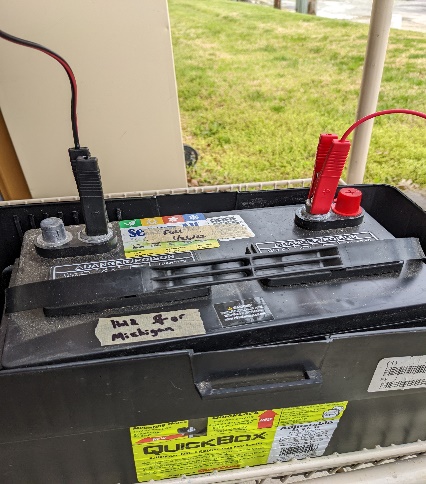
1. Ensure drain cap is securely closed on tank.



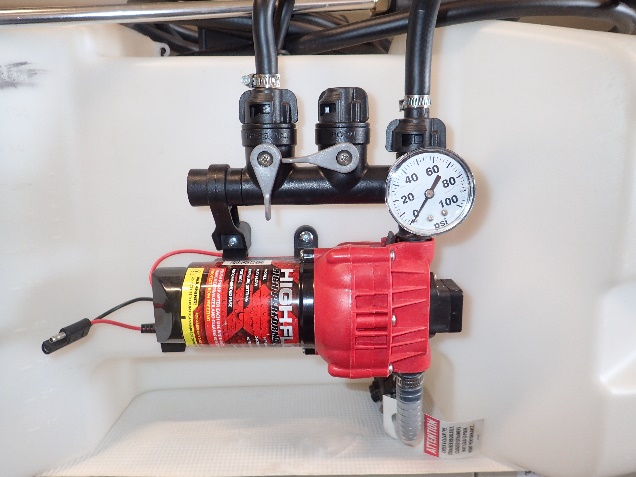
1. Attached hose to fitting label ‘Handgun’ If using the handgun to administer chemical. Make sure there is a washer in the fitting.
   1. Extra washers are in the Tank Spare Part Box (clear with white lid).
      1. Tee Jet CP19438-EPR gasket
   2. Fitting is very tight, so it will take some strength to close value.



1. Fill tank one-third to three quarters full of water (dependent on type and volume of pesticide used).
   1. Add chemical.
   2. Fill with water to volume of dilution or stock concentration.
2. To mix chemical prior to delivery, attached battery wiring harness to tank pump.
   1. Connect the end of the lead wire to the end of the pump.
   2. The lead wire has an On/Off switch to activate the pump.
   3. “1 or -” is ‘on’ and “O” is ‘off’.
3. Connect battery clips on wiring harness to battery.
   1. First connect red clip to the positive (red) terminal first.
   2. Then connect black clip to the negative (blac**k**) connection.
   3. Turn switch to ‘on’ position when ready to mix chemical with tank water.

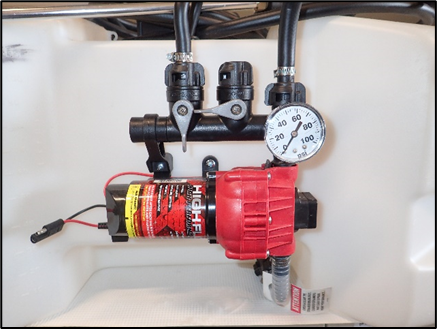
1. If pump sounds quite or not operating at preferred performance, Check battery or replace with fresh battery.
2. To mix chemical, open ‘Pressure Adj.’ value to the level of mixing you desire.



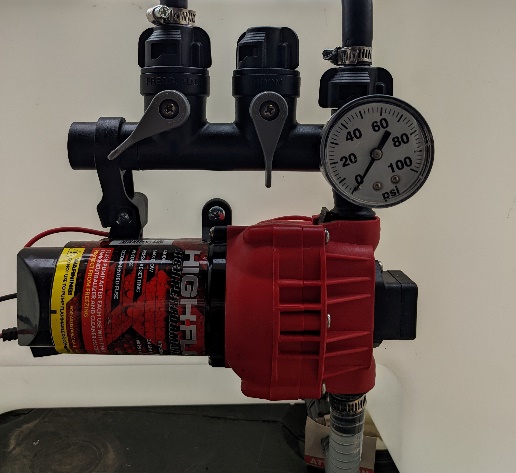
1. If mixer does not come on, check wiring harness fuses (there are two fuses).
   1. Extra fuses are in the Tank Spare Part Box (clear with white lid).



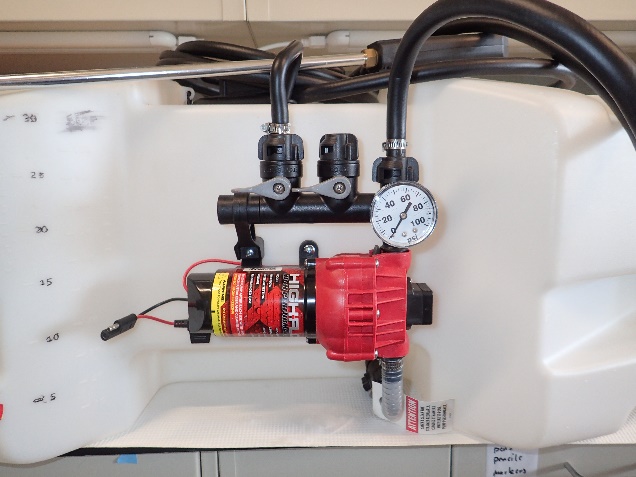
* 1. After about 10–15 min of mixing, prime the tank hose into the pressurized tank.
     1. Value setting is the same.



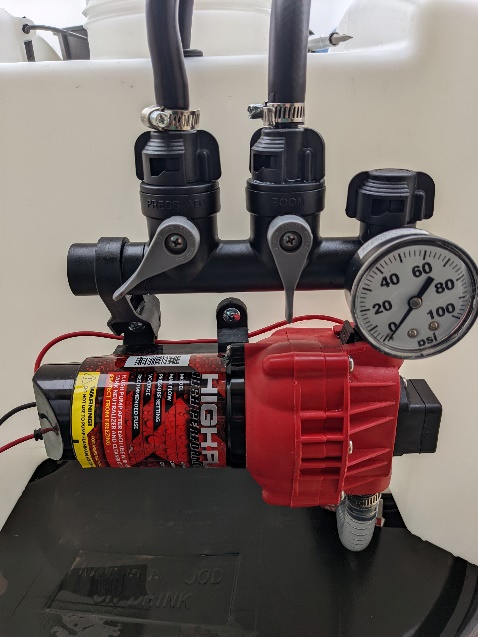
1. To adjust pressure, use the far-left valve marked “Pressure Adj.” and slowly adjust to the pressure you desire.



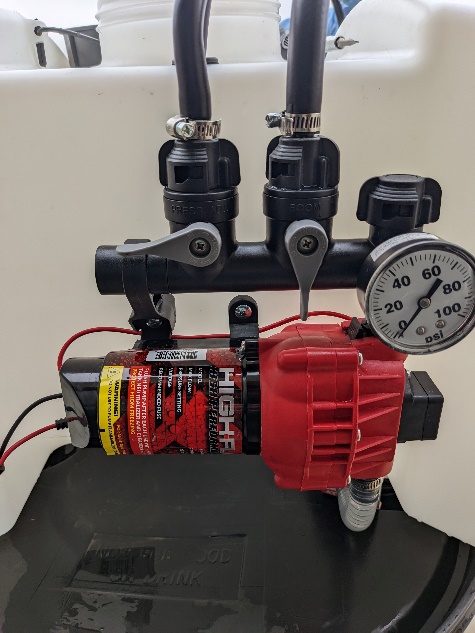
1. To deliver chemical without mixing, not usually done, then value settings would be:
   1. This valve setting closes both valves



1. Steps from #3-10 can be followed when using the Boom bucket to apply chemical
   1. Agitator half open with pressure at 10 psi going out the Boom Bucket or PVC Boom



* 1. Agitator closed with pressure at 40 psi coming out the Bucket or PVC Boom



1. If pond or clean water was used to pressurize hose to check for leaks, hose needs to be purged before applying chemical solution into burrow.
   1. Clean water entering pond not as critical due to the volume being put into pond to reach nominal (target) concentration.
   2. Tank concentration for burrow treatments = nominal concentration. If clean water is in line, crayfish and or burrow will be undertreated.
2. When the tank is drained or empty, turn off pump via power switch.
   1. Leave valves open and pull gun trigger to release pressure.
3. Disconnect sprayer cables from battery.
   1. Disconnect the negative (black) connection, then and the positive (red) connection from the battery, and finally disconnect the end of the pump cables from the lead wiring harness.
4. Tank and hose should be cleaned after each use (tripled rinse with clean water).
   1. For long-term storage, consider treating with liquid soap + 3x water rinse (see Tank Manual).
5. Disconnect pressure hose and drain cap to allow water to drain from system (tank and tubing, hose, and booms).

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| **Study** | **Chemical Used** | **Type of chemical** | **Date** | **Est. Hours of Operation** | **Tank Rinsed after Use** | **Screen Cleaned After Use** |
| Michigan DNR-invasive crayfish control | ExciteR | Pyrethrin pesticide with petroleum distillates | Jul-21 | 50 | ? | yes |
| Michigan Prep | Well Water | N/A | Mar-23 | 0.5 | Yes | No |
| Michigan Prep | Well Water | N/A | April 12 | 1.0 | Yes | Cleaned Before Use |
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