

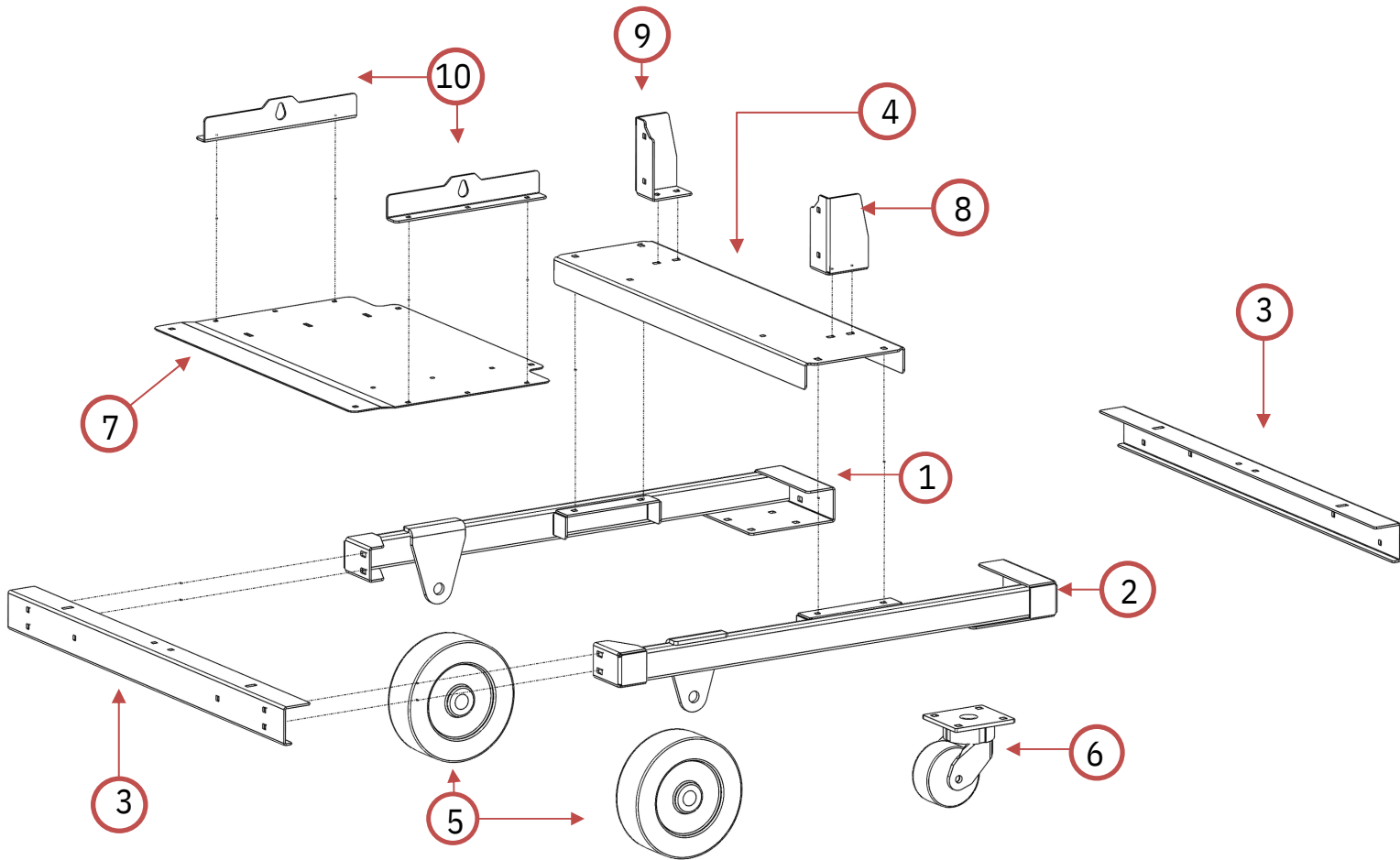
GorillaConcreteTools

GP-1: Dual Component Pump

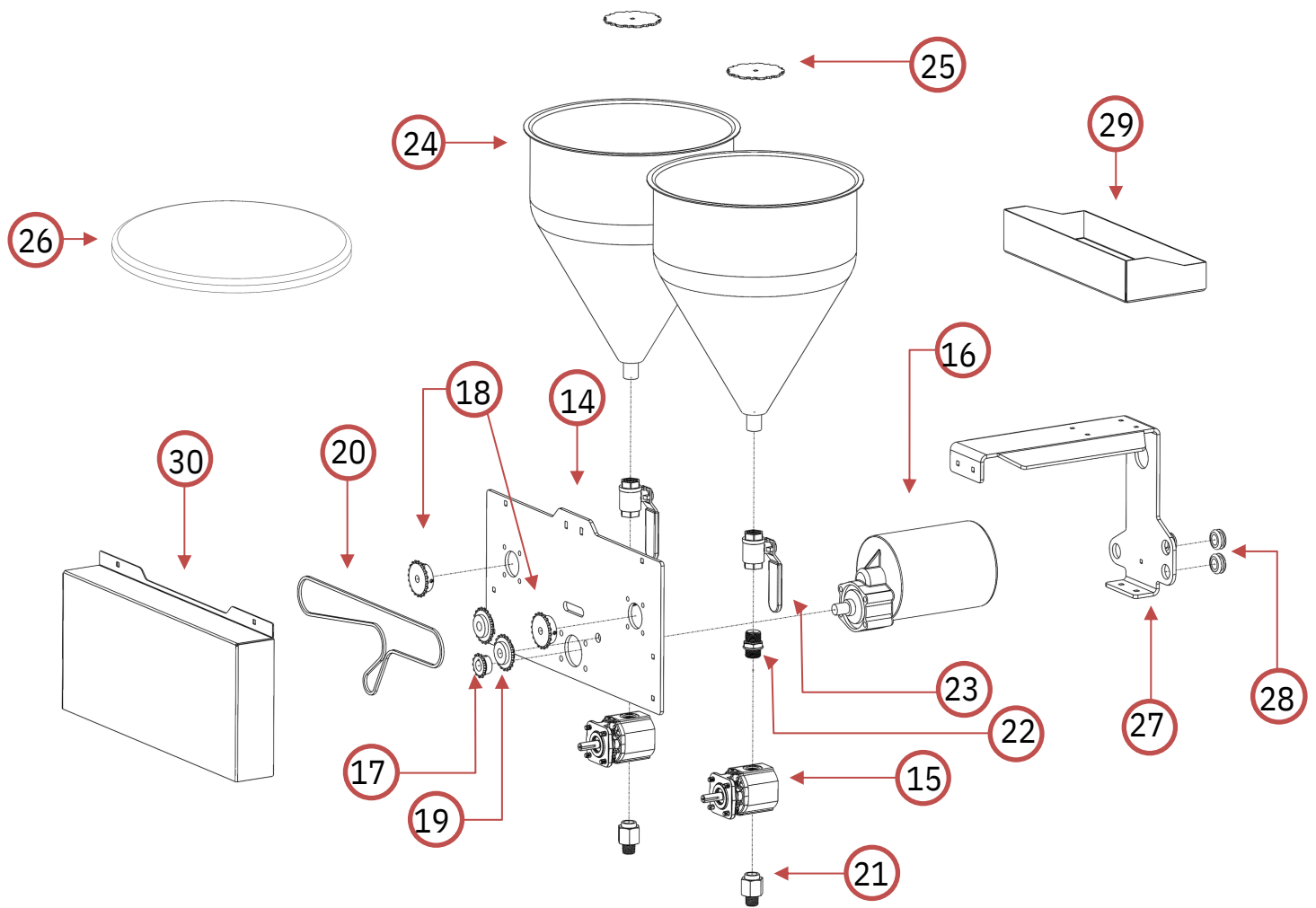
Product Manual



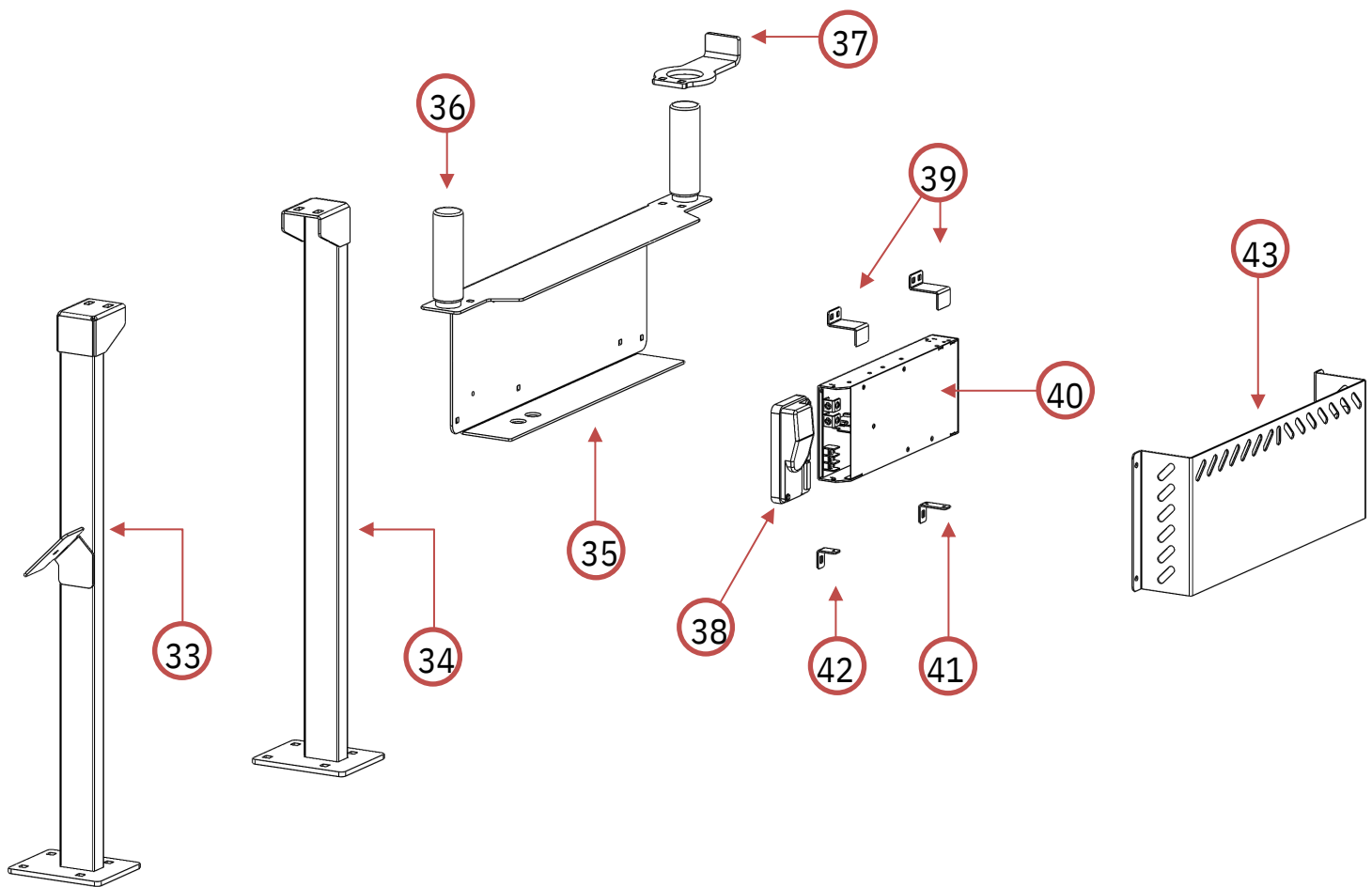
Parts Diagram



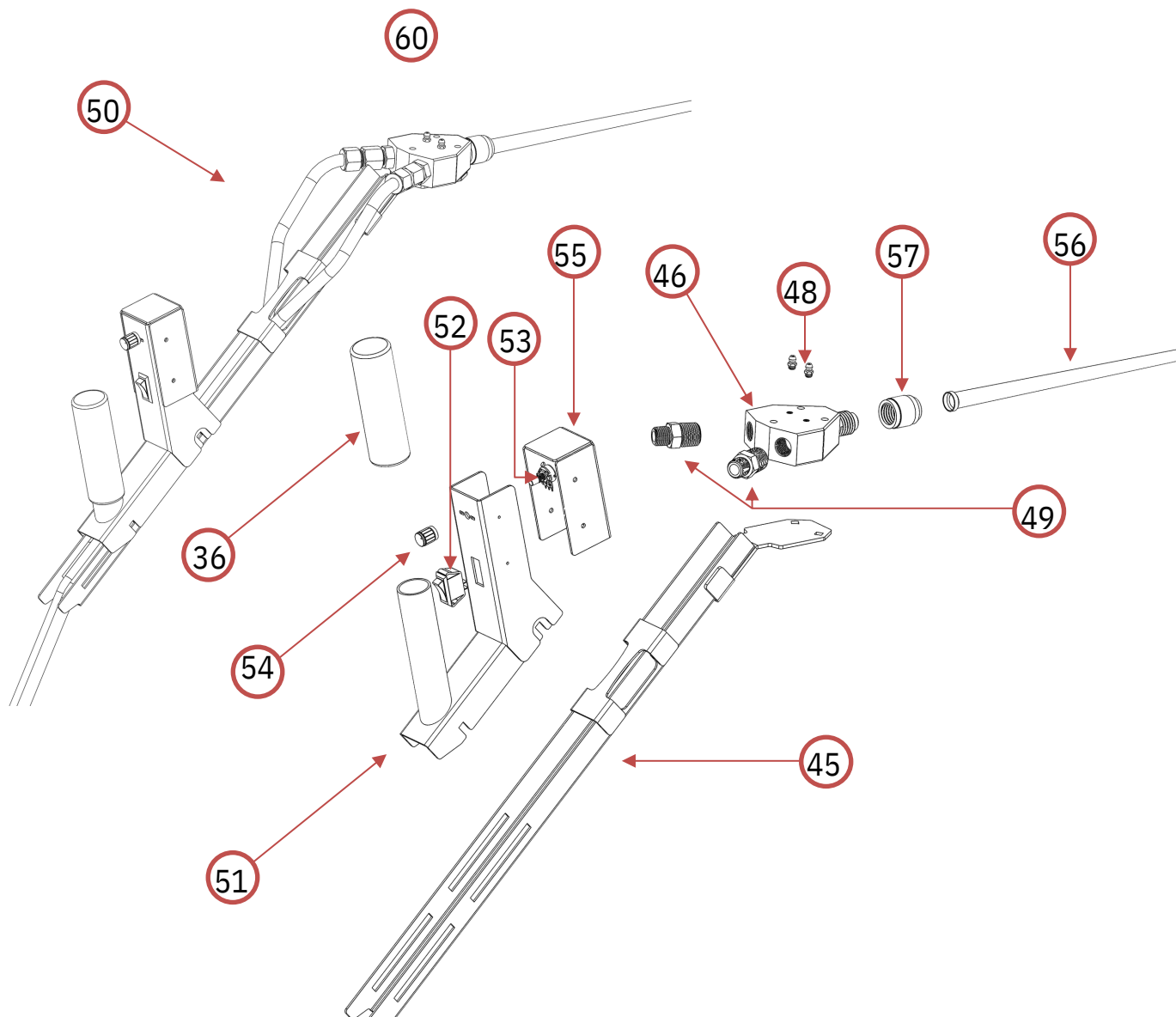
Part #	Description
GP1 - 1	Right Main Base Beam
GP1 - 2	Left Main Base Beam
GP1 - 3	Main connecting beam
GP1 - 4	Motor/Pump beam
GP1 - 5	8" Wheel
GP1 - 6	Caster Wheel
GP1 - 7	Generator/Battery Tray
GP1 - 8	Left Motor/Pump Mount support
GP1 - 9	Right Motor/Pump Mount support
GP1 - 10	Generator/Battery Tie down



Part #	Description
GP1 – 14	Motor/Pump Mounting Plate
GP1 – 15	Pump
GP1 – 16	Drive Motor
GP1 – 17	Drive Sprocket
GP1 – 18	Pump Sprocket
GP1 – 19	Idler Sprocket
GP1 – 20	Drive Chain
GP1 – 21	Lower Pump Fitting
GP1 – 22	Upper Pump Fitting
GP1 – 23	Ball Valve
GP1 – 24	Stainless Steel Hopper
GP1 – 25	Large Particle Filter
GP1 – 26	Hopper Lid
GP1 – 27	Motor Drip cover
GP1 – 28	Dispensing Hose Grommet
GP1 – 29	Tool Tray
GP1 – 30	Chain/Sprocket Cover
GP1 – 31	Dispensing Hose Retention Cable (Not Pictured)



Part #	Description
GP1 – 33	Left Handle Upright
GP1 – 34	Right Handle Upright
GP1 – 35	Controller Mount
GP1 – 36	Handle Grip
GP1 – 37	Waste Dispensing Bucket Holder
GP1 – 38	Controller
GP1 – 39	Inverter Top Brackets
GP1 – 40	Inverter
GP1 – 41	Inverter Bottom Right Bracket
GP1 – 42	Inverter Bottom Left Bracket
GP1 – 43	Electronics Cover
GP1 – 44	Main Power Supply Cord (Not Pictured)
GP1 – 44A	Main Power Supply Cord Grip Connector (Not Pictured)



Part #	Description
GP1 – 45	Dispensing Wand
GP1 – 46	Coarse Thread Manifold
GP1 – 47	Fine Thread Manifold
GP1 – 48	Grease Fitting
GP1 – 49	Manifold Hose Fitting
GP1 – 50	Dispensing hose
GP1 – 51	Wand Handle
GP1 – 52	On/Off Switch
GP1 – 53	Potentiometer
GP1 – 54	Potentiometer Knob
GP1 – 55	Handle Electronics cover
GP1 – 56	Static Mixing Tip
GP1 – 57	Manifold Nut
GP1 – 58	Wand Electrical Harness (Not Pictured)
GP1 – 59	Dispensing Hose Protective Cover (Not Pictured)
GP1 – 60	Complete Dispensing Wand Assembly As Shown

Additional Components

Part #	Description
GP1 – 62	Coarse Thread Manifold Night Cap
GP1 – 63	Fine Thread Manifold Night Cap
GP1 – 64	2:1 Pumping Sprocket
GP1 – 65	2:1 Drive Chain

GP-1 Features, Set Up, and Cleaning

Warnings!

These instructions are only intended to show you the set-up of our pump. Do not use until you have been trained on how to properly operate a polyurea pump.

- Wear appropriate safety gear when operating this pump
- Always use the same tanks with similar chemicals. Mixing materials will cause curing inside of the tanks, pumps, and hoses
- Store pump properly according to guidelines

Pump Features

Pump Control Features:

Familiarize yourself with the pump prior to use

- **Power Switches:** Every unit is equipped with two on/off switches. *Ensure both switches are off prior to connecting to power.*
 - **The Main Power Switch** (fig. 1) is located on the main power line coming from the power source and will turn on electronic controls.
 - **The Dispensing Wand Switch** (fig. 2 red arrow) is located on the handle of the dispensing wand and turns on the motor and speed control.
- **Speed Control:** (fig. 2. yellow arrow)
 - This unit is programmed for soft starting to ensure smooth operation and dispensing of material, which means it will take several seconds to achieve maximum speed.
 - *We recommend turning the speed control knob all the way counter clockwise to the 0 throttle position prior to first use.*
 - To increase dispensing rate, turn speed control knob clockwise.



Pump Set Up

Filling Pump:

1. Read the manufacturer's safety data sheet and instructions for the material you will be using.
2. Mix components according to the manufacturer's instructions.
3. After mixing components, pour Part A into Part A tank, and then, pour Part B into Part B tank. (Fig. 1)

Never cross contaminant tanks.

Preparing for Use:

1. Clean off the manifold with the static mixing tip removed. (Fig. 2)
2. Dispense material into a waste container to check for a smooth, air-free flow of both components. Make sure that there are two smooth, consistent streams.
 - a. *If the streams of material are not consistent, check for blockages and clean the manifold accordingly and repeat the previous steps.*
3. Attach a new static mixing tip onto the manifold.
 - a. *If dispensing a cure sample, follow long-term interruptions directions below.*

Figure 2

Work Interruptions:

1. **Short Term** (5 or so minutes): periodically trigger applicator wand to dispense material into a waste container every 30-45 seconds to ensure the material in static mixing tip does not set.
2. **Long Term** (lunch break or cure sample): remove static mixing tip and discard. Pump grease into fittings on the manifold. Upon returning to work, re-install a new static mixing tip.

Figure 1



Figure 2



Pump Cleaning

Materials Needed:

- 8 cups of manufacturer's recommender cleaner
- 4 cups of oil (we recommend vegetable)
- Solvent proof gloves and splash-proof goggles
- Waste buckets
- Rags or Paper towels
- Proper storage container for leftover material

Warnings

- Always clean in a well-ventilated area
- Do NOT clean the pump near open flames or welders
- Wear protective gear
- Dispose of all waste correct and according to local guidelines

Tank Cleaning:

1. Dispose of all remaining material by purging it straight through the manifold without a static mixer attached into a waste container. *Follow manufacturer's guidelines for material disposal.*
2. After emptying, pour 4 cups of cleaner into each tank.
3. Purge through the system, including the manifold to clean it out.
4. Repeat steps 2 and 3 as needed until lines are clean.
5. Verify that all cleaner has been purged from the system.
6. Wipe tanks clean with the manufacturer's recommended cleaner.

Proper Storage:

1. After cleaning, pour at least 2 cups of oil (we recommend vegetable) into each tank.
2. Purge any remaining cleaner from the system using the oil. Leave some oil in the lines, manifold, valves, and pumps for proper storage.
3. Using manifold grease fittings, pump grease into manifold until it comes out of the dispensing ports.