



## JOINT FILL SOLUTION GROUP

### POLYMER PUMP CLEANING INSTRUCTIONS

Cleaning and storage process if the machine will not be used for more than 24 hours.

#### Polyurea

##### Step 1.

Dispense all remaining material out of the machine by running it straight through the manifold with a static mixer in place. Disposing of cured material is safer than disposing of the liquid. If there is a large amount (more than a gallon) left in the tanks, the material may be pumped back into a storage bucket for later use. Remove the lines from the back of the manifold to make this easier. It is advisable to do part A and part B separately to avoid cross contamination.

##### Step 2.

When the tanks and lines are empty, pour ½ gallon of Xylene (or other type of solvent used for thinning oil-based paints) Products like Metzger McGuire M-Flush may also be used. Use a separate toilet bowl brush to clean each tank with the solvent in the tanks. Turn the pump on about half speed and pump into a waste bucket until all the polyurea is pumped out and the solvent just starts coming out.

##### Step 3.

Stop the pump and remove the lines from the back of the manifold. Put the A line into the A tank and the B line into the B tank and cycle the solvent through for a minimum of 5 minutes.

##### Step 4.

Re-attach the lines to the back of the manifold and pump the solvent into a container and dispose of it properly. Do not reuse it.

##### Step 5.

Pour ¼ gallon of new solvent into the tanks and pump this through the system. It should be coming out clear when it runs out.

##### Step 6.

Pour ½ gallon of hydraulic oil into each tank. Turn on the pump about half speed and pump into a waste bucket. Run until all the residual solvent is pushed out by the hydraulic fluid and clean hydraulic oil is coming out.

##### Step 7.

Stop the pump. Grease the zerk fittings on the manifold until grease comes out the holes in the tip. This will help prevent oil from leaking. Install the Nightcap and Retainer nut.

#### Other Information

The purpose of cleaning the pump thoroughly is so that it works properly the next time you need to use it. US Saws highly recommends the following practices:

- Test the pump several days before you need it, especially if it's been sitting for more than a month.
- Keep spare parts on hand
- Don't cross contaminate polyurea and epoxy
- Make sure the polyol and isocyanate are going into the correct tank. Not all manufacturers use the same A&B pattern.

#### Epoxy

DO NOT USE SOLVENT

##### Step 1.

Dispense all remaining material out of the machine by running it straight through the manifold with a static mixer in place. Disposing of cured material is safer than disposing of the liquid. If there is a large amount (more than a gallon) left in the tanks, the material may be pumped back into a storage bucket for later use. Remove the lines from the back of the manifold to make this easier. It is advisable to do part A and part B separately to avoid cross contamination.

##### Step 2.

Pour 1 gallon of hydraulic oil into each tank. Turn on the pump about half speed and pump into a waste bucket. Run until all the epoxy is pushed out by the hydraulic fluid and clean hydraulic oil is coming out.

##### Step 3.

Stop the pump. Grease the zerk fittings on the manifold until grease comes out the holes in the tip. This will help prevent oil from leaking. Install the Nightcap and Retainer nut.

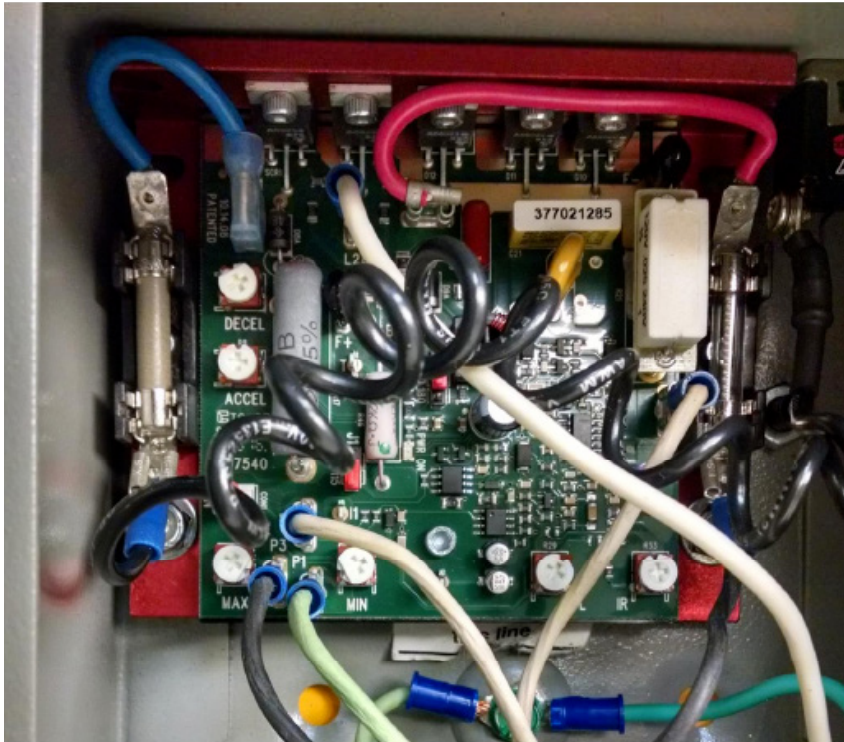
#### Safety Precautions

- Perform this operation in a well-ventilated area
- Do NOT smoke when cleaning the pump
- Do NOT clean the pump near open flames or welders
- Wear splash proof goggles
- Wear solvent proof gloves
- Dispose of all waste in accordance with local laws

#### What you need

- 1-1/2 gallons of solvent (Xylene or equivalent)
- 2 Gallons of Hydraulic Oil (AW-32 is a common type)
- Solvent proof gloves
- Waste buckets
- Rags or Paper towels
- Splash proof goggles
- (optional) 2 toilet bowl brushes

## Setup and Testing Instructions for DC Pump SX20000 with 90V DC Motor



### Notes:

Reading letters on control board from proper direction, vertical wall on back plate horizontal on top (see pic):

ACCEL/DECEL- controls acceleration/deceleration time from 2 seconds to 30 seconds 9 o'clock position is null- range is from 10 o'clock (2 seconds) to 8 o'clock (30 seconds), max is CW, min is CCW

MAX/MIN- controls maximum and minimum RPM- 6 o'clock position is null- range is from 7 o'clock to 5 o'clock, max is CW, min is CCW

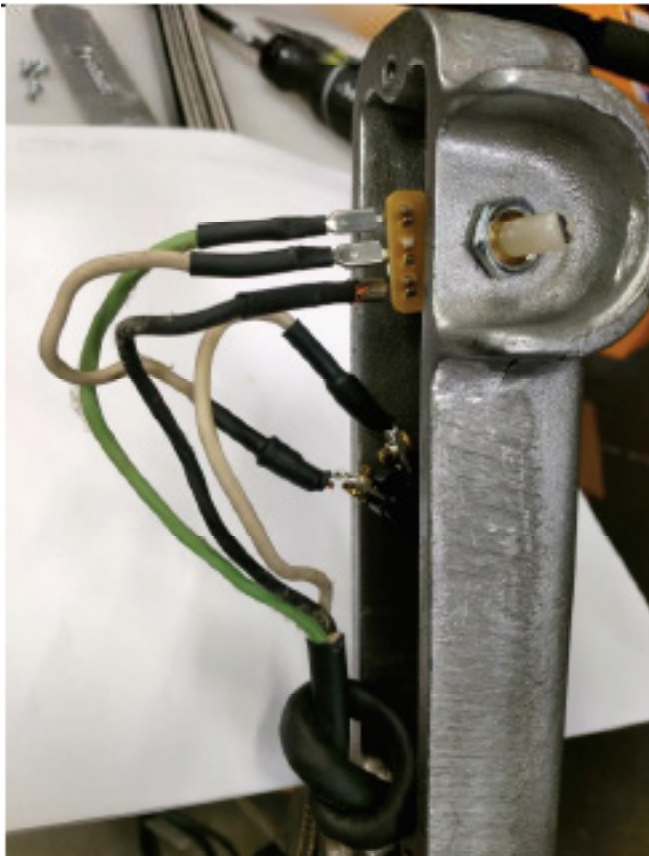
CL- current limiter- RPM- 6 o'clock position is null- range is from 7 o'clock to 5 o'clock, max is CW, min is CCW

### Settings:

ACCEL should be set at 1200  
DECEL should be set at minimum, full CCW  
MAX should be set at maximum, full CW  
MIN should be set at minimum, full CCW  
CL should be set at 130  
IR should be set at 900

### Jumpers:

DC CONTROL VOLTAGE JUMPER T-90-180 should be at middle for 110V, right for 230V  
AC INPUT VOLTAGE JUMPER 230-115 should be at 115V or 230V  
ENG should be on (only 2 connections/one position)



### Testing:

1. Put roughly 1-2 quarts of oil into each urethane bucket
2. Hold end of wand/manifold over one of the urethane buckets
3. Ensure machine is in off position
4. Plug in machine
5. Move pot on handle to roughly middle position
6. Turn on machine
7. Pull trigger on wand/handle; ensure oil comes out of nozzle in on position
8. Move pot on wand/handle; ensure flow of oil changes (0 at fully CCW pot, max at fully CW pot)
9. Move pot to middle position
10. Pull trigger on wand/handle; ensure flow stops quickly.
11. Pull trigger again, ensure flow starts quickly.
12. Pull trigger on again, ensure flow stops quickly.
13. Ensure 1-2 inches of oil in each bucket; pump out any excess into another container
14. Turn off machine
15. Unplug and get ready to ship.