Q: How to lift the tank and replace a heat pad on Romag?

A:

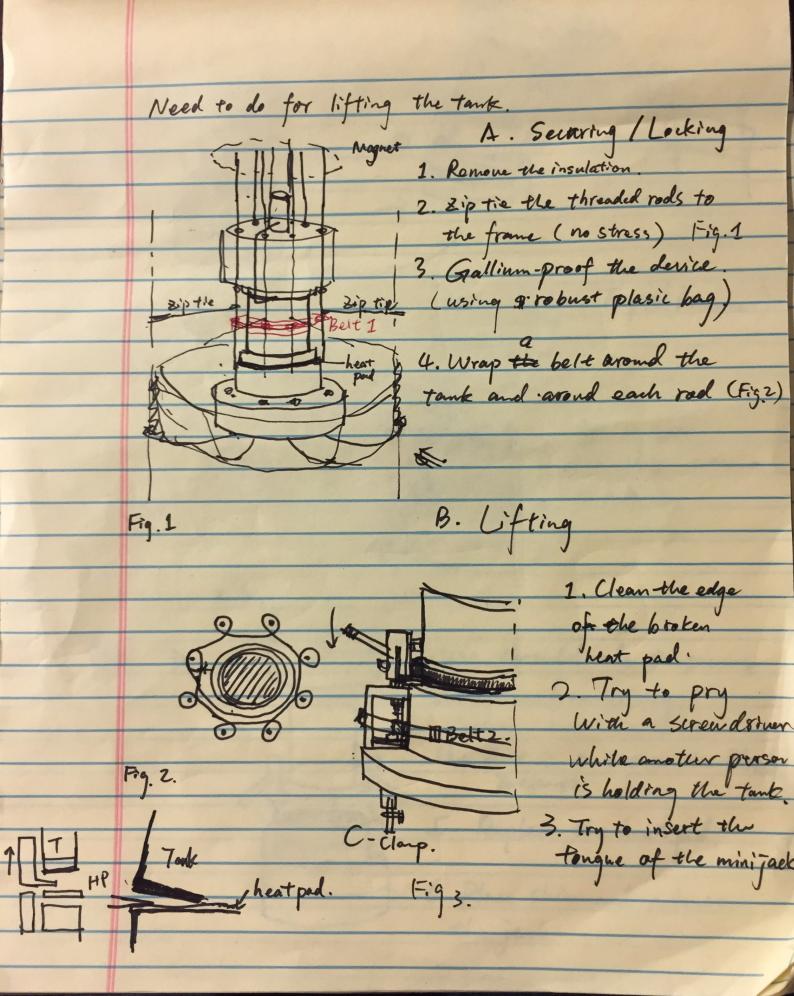
- A. Securing the tank and heat exchanger.
  - 1. Remove the insulation
  - 2. Unscrew the threaded rods from the bottom stainless steel plate and retightened on the heat exchanger.
  - 3. Zip tie the threaded rods to the lab frame (apply no stress).
  - 4. Gallium-proof the system by securing some robust plastic bags at the bottom plate to prevent gallium falling on the ground.
  - 5. Wrap a long belt around the tank and then around each rod to secure the tank with the heat exchanger.

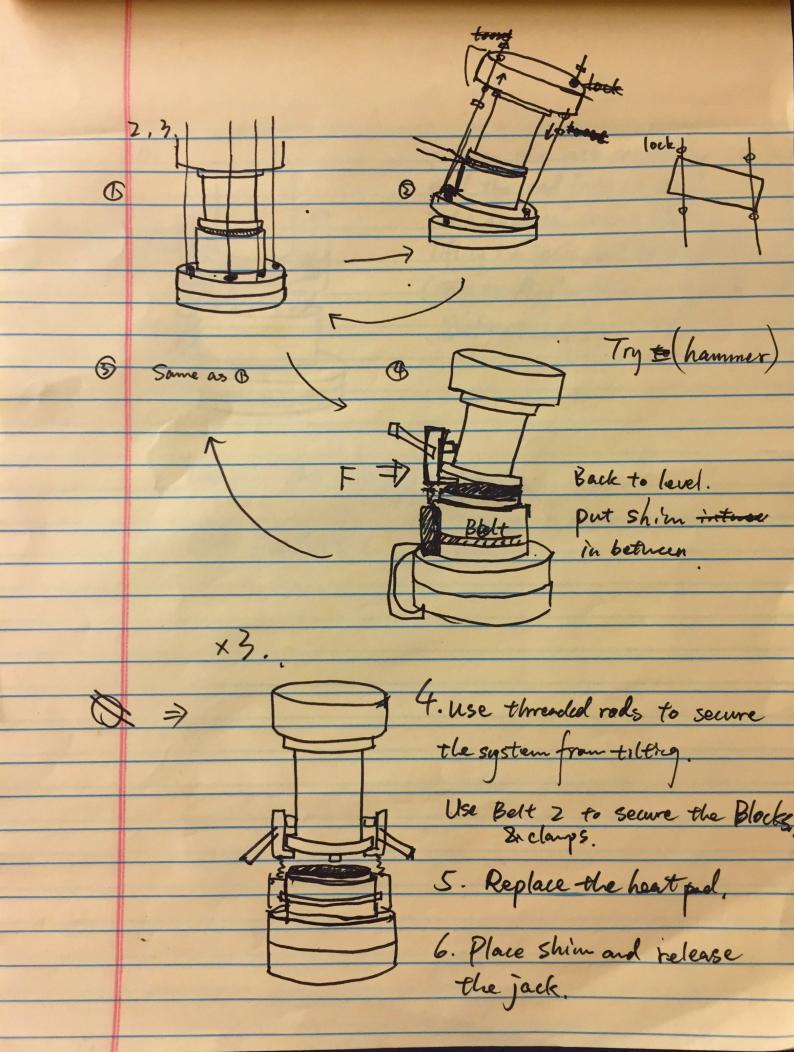
## B. Lifting

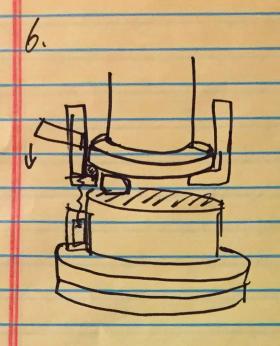
- 0. Apply thermal grease on the new head pad before lifting.
- 1. Clean the edge of the heat pad as much as possible with a blade.
- 2. Try to pry with a screwdriver while another person is holding the tank. (Tilting the bottom plate will help the prying)
- 3. Try to insert the tongue of the mini-jack one by one (above the heat pad)
- 4. Use threaded rods to secure the system from tilting
- 5. Replace the heat pad.

## C. Lowering

- 1. Unscrew thread rods and place shim.
- 2. Release the jack (one at a time) completely and the load falls on the shim. Lift the jack but do not lock, get rid of the shim.
  - 3. Gently remove the jack and let the tank sit on the new heat pad.
  - 4. Redo the insulations and get rid of the extra supports/protections.







release the jack completely and the load falls on shim.

Take any the shim while lifting the jack, but do not lock.

(Fry To Apply thermal grosse Before hand)

7. Remere she minijades gently

8. Redo insulations.