

End of Expedition Cleanup

END OF EXPEDITION CLEANUP

LOGITECH LP50

1. Remove the arms and wipe them clean with a kimwipe and isopropyl alcohol.
 - a. All the bearings should move smoothly. If they do not, remove the plastic caps, unscrew them from the arm and replace them with new ones.
 - b. Store the arms in the LP50 drawer in the cabinet.
2. Remove the drip tray and wipe it clean with a kimwipe and isopropyl alcohol.
3. Remove the drip scrapper and clean it.
4. Take the lapping wheel off the LP50.
5. Wash the surface and sides of the lapping wheel with a soft brush and warm water. Make sure all slurry and rocks are cleaned out of the grooves. Then, blow it dry with the air gun. Wipe off any light rust with a dry clean rag.
6. Before replacing the lapping wheel, remove and clean the slurry catch tray.
 - a. Clean under the tray before replacing it.
7. Clean all the surfaces of the LP50.
8. Replace the slurry catch tray, lapping plate, drip tray and scrapper.
9. Cover the LP50 after done cleaning.
10. Clean and store the jigs.

LOGITECH WG2

1. Take all the weights off the carousel, clean them, and then store them.
2. Remove the sides of the sample holders with a flat head screwdriver. The face of the sample holder will be scuffed up after use (Fig. 1)

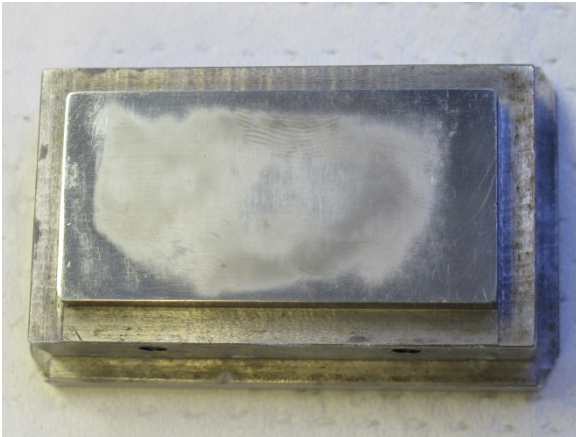


Figure 1

1. Place the sample holders under the carousel posts. The face of the sample holder should be on the polishing pad (Fig. 2).

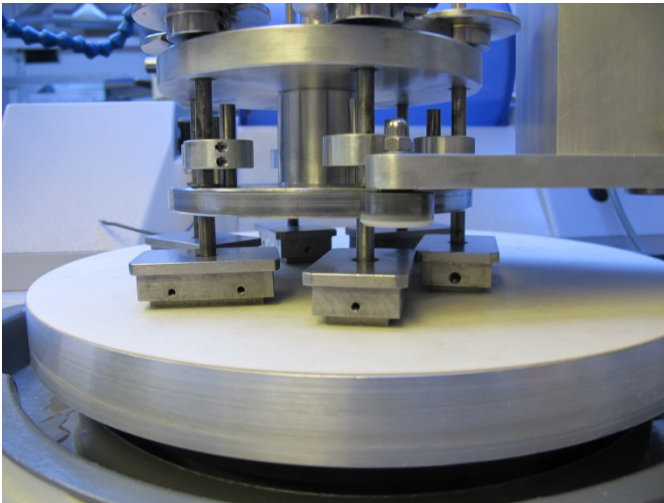


Figure 2

1. Run the polisher for around 40 minutes.
 - a. WG2: 90%, Plate Speed: 58, Sweep: 0-100
2. During the run the polishing pad will turn gray (Fig. 3).

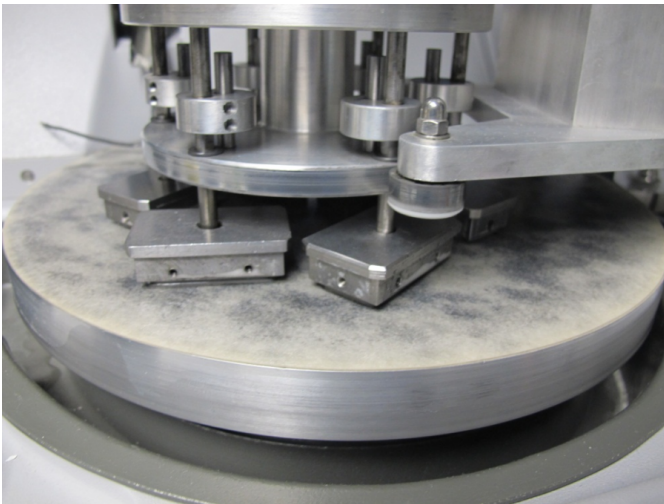


Figure 3

1. Once 40 minutes is up remove the sample holders and clean them with isopropyl alcohol.
 - a. Another way to clean them is to put them in the ultrasonic bath for around 15 minutes.
2. The face of the sample holders will be polished and the scuff marks should be removed (Fig. 4).

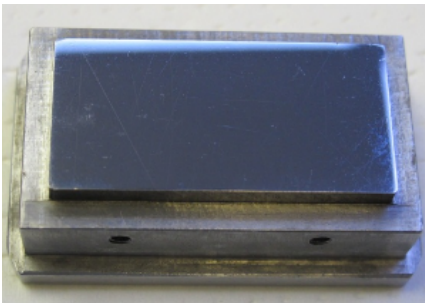


Figure 4

1. Also clean the sides of the sample holders either with simple green or in the ultrasonic bath.
2. Screw back on the sides in the way a slide will fit back into it.
 - a. Length wise: one side should have one groove facing out and one in (Fig. 5).
 - b. Width wise: both sides should have the groove facing out (Fig. 6).

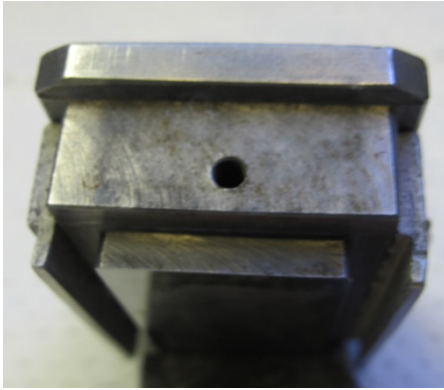


Figure 5

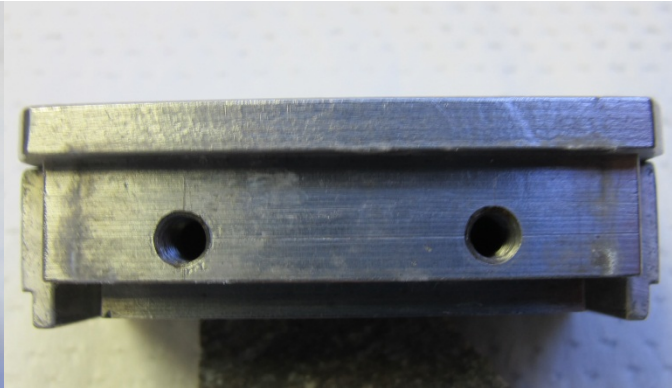


Figure 6

1. Store the sample holders.
2. Remove the drip tray and scrapper, and then clean them.
3. Lift up the carousel and remove the polishing plate
4. Pull off the polishing pad and clean the plate with isopropyl alcohol.
5. Remove and clean the slurry catcher tray then replace it.
6. Clean the surface on the WG2.
7. Replace the polishing plate and place the metal cover over it.
8. Lower down the carousel.
9. Replace the drip tray and scrapper.
10. Cover the WG2 when you are finished cleaning.

BUEHLER PETROTHIN

1. Remove the cutting blade and cup wheel from the Petrothin (Fig. 7).

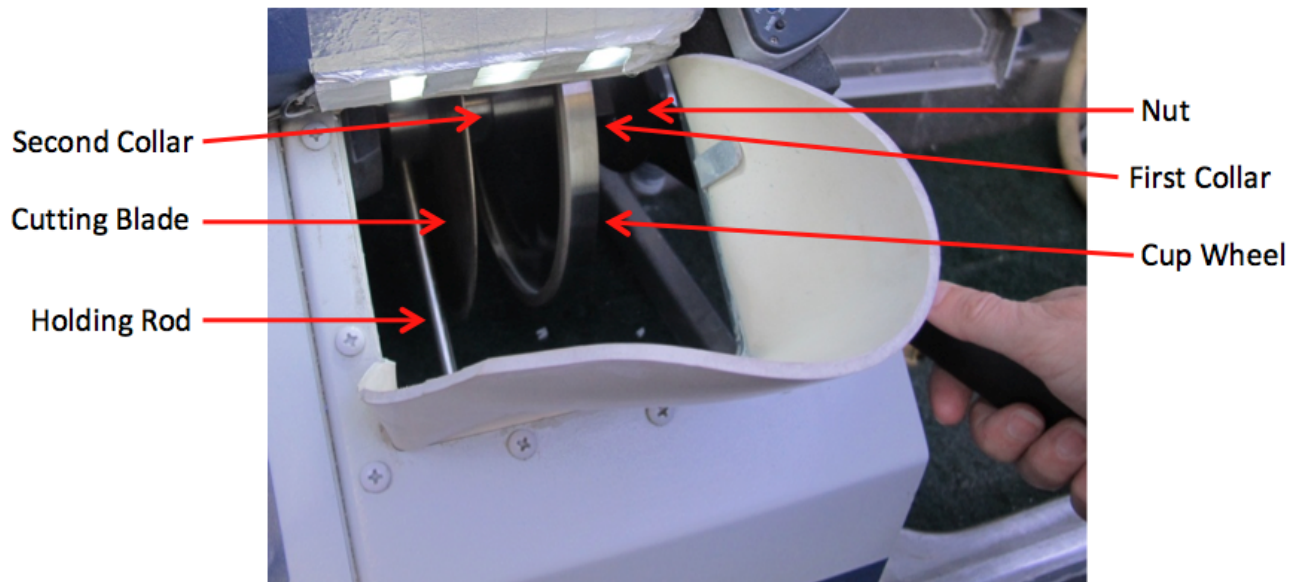


Figure 7

- a. Insert the holding rod into the hole on the inmost collar (Fig. 7).
- b. Use a 1 ½ in. wrench to take off the nut, take note of which way it is facing. The side with the raised edge should be facing the inside of the PetroThin (Fig. 7 and 8).
- c. Remove the first collar and take note of which way it is facing. The side with the raised outer edge should be facing the inside of the PetroThin (Fig. 7 and 8).

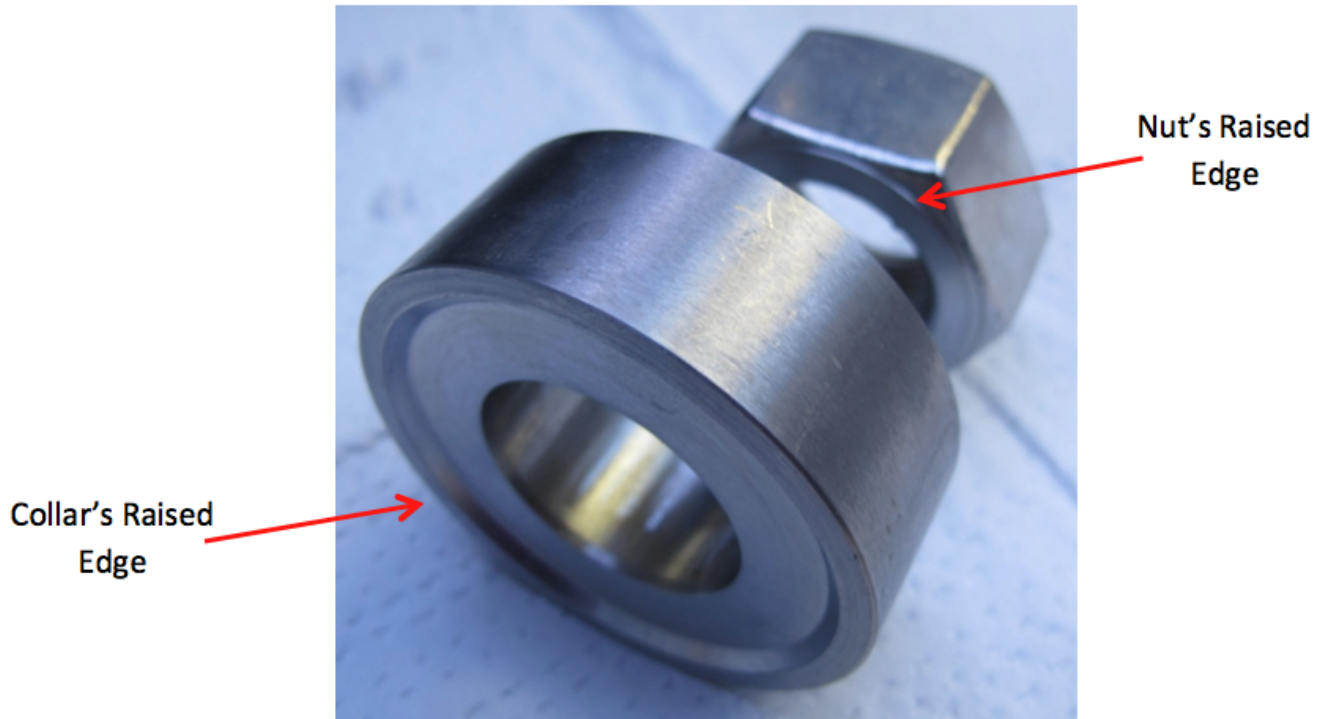


Figure 8

- a. Carefully take off the cup wheel (Fig. 7).
- b. Then remove the second collar (Fig. 7 and 9). Both sides of this collar are the same so it does not matter which way it is facing. Sometime it is difficult to get it off, the best way to "unstick it" is by tapping it lightly with a brass hammer (so it will not damage the collar).

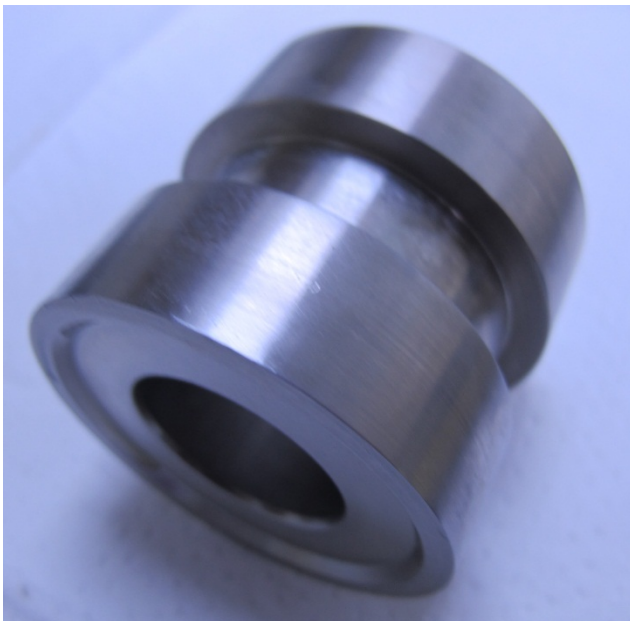


Figure 9

- a. Lastly remove the cutting blade.
2. Remove the greeny meanies and clean all saw cuttings that coat the inside of the PetroThin.
3. Replace the green meanies with new ones.
4. Clean the cup wheel, cutting blade, collars, and the nut with isopropyl alcohol.
5. Put a line of oil on the motor shaft that says "Pull Spout Oiler".
6. Replace the cutting blade and cup wheel on motor shaft.
 - a. First put on the cutting blade with writing facing the inside of the PetroThin.
 - b. Then replace the second collar.
 - c. After that put the cup wheel back on with the writing facing the inside once again.

- d. Then the first collar with the edged side facing the inside.
 - e. Lastly replace the nut also with the edge facing the inside. Use the holding rod to tighten the nut down.
7. Clean the surfaces of the PetroThin.
 8. Put a line of oil with the "Pull Spout Oiler" on the bar that moves the chuck face from the cup wheel to the cutting wheel. Move the chuck face back and forth to evenly distribute it.
 9. Cover the Petrothin after cleaning.

GENERAL LAB CLEANUP

1. Dust all the overheads and vacuum the air vent.
2. Wipe down all the walls.
3. Clean all the counter tops and doors.
 - a. Leave the shelf liner in place. If they do not get clean replace them with new ones.
4. Clean out the sink in the lab and the one outside the lab.
 - a. Remove and spray off the tray that sits in the sink in the lab. Once everything has been cleaned replace all the greeny meanies with new ones.
5. Clean/dust the microscope and cover it.
6. Unplug hot plate and replace Teflon if it is torn up.
7. Clean off EpoTech dispensers.
8. Empty all four sediment traps: for the LP50 and WG2, Buehler lap wheel, inside, and outside sink.
9. Fill all spray bottles.
10. Wipe down stools and the step stool.
11. Clean the counter lights.
12. Dust the TVs and computer.
13. Clean the ultrasonic cleaner if it was used.
14. Clean the VS2 by dusting it off.
15. Clean and cover the Buehler MetaServ 250.
16. Perform a physical account of epoxy and update the AMS check-out sheet, taking into account the expiration date of unopened bottles.

Credit

Original version created by Susan Boehm

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