

Base View

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
Equipment: (E...						
1	2/21/2021		Action	This is an issue with the hydraulic press but that machine is not listed under Equipment - the cooling fan for the electronics box is making a grinding/whining sound.		Removed the fan and used compressed air to blow it out. However, the whining/grinding sound from the fan still persists. I don't think it's an issue unless the hydraulic press is run continuously, but should we need to replace it, this should be a compatible replacement: https://www.elecok.com/kaku-ka9225ha2-220-240v-0-09-0-1a-cooling-fan.html
2	2/21/2021		Action	This is an issue with the hydraulic press but that machine is not listed under Equipment - the cooling fan for the electronics box is making a grinding/whining sound.		Removed the fan and used compressed air to blow it out. However, the whining/grinding sound from the fan still persists. I don't think it's an issue unless the hydraulic press is run continuously, but should we need to replace it, this should be a compatible replacement: https://www.elecok.com/kaku-ka9225ha2-220-240v-0-09-0-1a-cooling-fan.html
3	2/21/2021			This is an issue with the hydraulic press but that machine is not listed under Equipment - the cooling fan for the electronics box is making a grinding/whining sound.		Removed the fan and used compressed air to blow it out. However, the whining/grinding sound from the fan still persists. I don't think it's an issue unless the hydraulic press is run continuously, but should we need to replace it, this should be a compatible replacement: https://www.elecok.com/kaku-ka9225ha2-220-240v-0-09-0-1a-cooling-fan.html

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4	10/30/2...		Request	<p>Hammer Drill side handle is broken and needs replaced. Found the manual to the hammer drill here:</p> <p>https://manualzz.com/doc/54161226/bauer-56404-1-2-in.-7.5-a-heavy-duty-variable-speed-rever...</p> <p>But couldn't find the part number for the side handle that would allow me to look up a replacement part.</p>		N/A
5	5/19/2022		Request	<p>The small silver washer that goes with the top knob needs to be reattached to the knob. Looks like it was originally just punched to hold it in place but it has worked loose. It is going to get lost if not reattached in a similarly permanent way.</p>		
Equipment:		L				
6	2/10/2021	Laser 1	Request	<p>Not cutting successfully all the way through on recommended settings. Smoke is lingering in work area for longer than it should be. Keep an eye on projects underway, and play around with different materials settings.</p>		N/A

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7	2/11/2021	Laser 1	Action	Smoke lingering in cabinet		Cleaned out the blower fan. Wasn't super-clogged, so not sure it will remedy the issue. Didn't investigate cut quality at this time.
8	3/3/2021	Laser 1	Request	<p>Laser 1 is now equipped with AUTOMATIC BLOWER CONTROL. The exhaust blower only starts when the laser actually fires, and stays on for 30 seconds at the end of the job. (As a bonus, the blower shutoff serves as an audible indication that your job is complete.)</p> <p>AUTOMATIC BLOWER CONTROL will be implemented on Laser 2 and the EvenBiggerLaser once additional parts are received.</p>		N/A
9	3/10/2021	Laser 1	Action	Cleaned lens		Cleaned lens

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10	4/14/2021	Laser 1	Action	Cleaned lens		Cleaned lens
11	4/28/2021	Laser 1	Action	Lens		Cleaned lens
12	5/2/2021	Laser 1	Request	Exhaust fan intermittently louder than normal. Laser is functional and fan is running, but very very loudly.		N/A
13	5/15/2021	Laser 1	Request	Laser not communicating with lightburn if laser turned on first.		N/A

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14	5/26/2021	Laser 1	Request	Chiller went into high-temperature alarm condition. Inspection revealed that the chiller's air input filters were totally clogged, so I cleaned air filters on both Laser 1 and Laser 2. Might be good to take the covers off the chillers and blow any dust out of the radiators.		N/A
15	5/26/2021	Laser 1		Lens		Cleaned lens

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
16	6/10/2021	Laser 1	Request	<p>Two separate issues, unrelated:</p> <ol style="list-style-type: none"> 1. The lens may need to be cleaned. I am getting a lot of flare-ups when cutting leather and this may be the cause. I'm having to go slower than normal when cutting, and am finding that the beam cuts better if I cheat the z-axis up a little (moving the materials closer to the cutting head) 2. The X/Y axis control buttons are only working intermittently. This is making it difficult adjust both the X/Y position AND the z-axis. Is it possible to replace the control panel? 		N/A
17	6/17/2021	Laser 1	Request	The computer won't turn on. It was mid-logging in and the screen went dark. waiting, Pressing the power button/other buttons, keyboard did not elicit a response, unplugging, and re-plugging the computer in also did not resolve the issue.		N/A
18	6/20/2021	Laser 1		Computer had shut off while member was logging on.		After trying to reboot, we waited a while and triple checked the power cord connection at the back of the computer. Seems like it may have been loose. The green indicator light at that connection was misleading (it held its light even when the cord was disconnected).

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19	8/29/2021	Laser 1		Laser moving in reverse and very slowly		Copied setpoints from Laser 2. Set to- Screen Origin: Top Right (was top left) Origin Set: None (was origin enable 1) Laser set: Continue, 3ms (was manual, 59ms) Manual set: Continue, .5mm (was continue, 29.0)
20	9/16/2021	Laser 1	Request	"Origin" button on laser's control panel does not update "user origin." You can't set the origin. The only workaround seems to be to run the cut from the Lightburn interface (not using the laser's control panel) and to set Lightburn "Start From" drop down to "Current Position," in which case the laser will start from its current position.		N/A
21	10/8/2021	Laser 1	Request	Laser head will not lower enough to focus on thin materials. Gives an error message when attempting to lower head.		N/A
22	11/4/2021	Laser 1		Control panel buttons not working intermittently		Replaced the control panel with the panel we got for the Kern. Thanks for your sacrifice, Marty!

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
23	11/4/2021	Laser 1		Exhaust fan partially clogged		Cleaned fan
24	12/6/2021	Laser 1	Request	<p>220 outlet for blower fan is not supplying power for either laser.</p> <p>Remaining power has been allocated to laser 2. Laser one is OFFLINE. Cannot tell if the blower timers are causing the issue or if this is a fuse/breaker issue.</p> <p>Laser and chillers work fine just the outlets supplying power to blowers are not working.</p>		N/A
25	12/6/2021	Laser 1	Request	Laser will not fire. May be problem with bulb, power supply, or door contacts. Currently working through each issue to try and confirm.		N/A
26	12/6/2021	Laser 1		Laser would not fire.		Chiller was manually off. Turned back on. Cleaned out a very dusty power supply in the process.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
27	1/2/2022	Laser 1	Request	The bed on Laser 1 is not level front to back. If I position the laser all the way forward, and set its 40mm height relative to the bed, and then move the laser half way back, its height is about 5mm higher above the bed. Further back on the bed, its even higher. My guess is that the scissor mechanism used to raise and lower the bed needs adjustment.		N/A
28	1/2/2022	Laser 1		Bed not level		Slipped belt and adjusted height until four corners were level. Still some variance in some areas of the bed where the mesh is pushed in, but level overall.
29	1/23/2022	Laser 1	Request	Laser is functioning peculiarly. Seems like hotter than typical and wood is catching and smoldering using settings that usually don't produce that result and work fine on laser 2. There is a lot of extra smoke and soot and kerf is wider than normal. I'm guessing that maybe the lens needs to be cleaned.		N/A

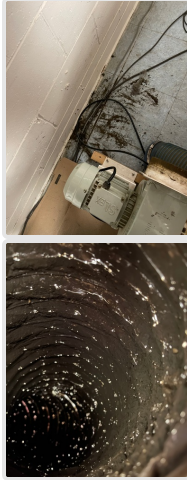
#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
30	1/25/2022	Laser 1		Not cutting well		Cleaned the lens
31	3/6/2022	Laser 1	Request	Laser is very dirty and bed is crusted with melted acrylic. Honeycomb needs to be cleaned and leveled. Also reports of a "cold spot" along front center of cutting space where laser doesn't seem to function as effectively. Lenses and mirrors probably also need to be cleaned and adjusted.		N/A
32	3/15/2022	Laser 1		Found the tag marked "dirty lens"		Cleaned the lens, still seems speckled and scratched. Cuts through .25 ply without problems.
33	4/27/2022	Laser 1	Request	Laser bed is not flat. Across a 24" sheet the cuts on one side are drastically different then the cuts on the other		N/A

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34	5/24/2022	Laser 1	Action	Uneven bed. General need of tuneup.		Made bed parallel to gantry. Replaced lens. Cleaned all mirrors. I haven't had time to add the focus plunger and the red dot laser, but this will come later.

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35	7/11/2022	Laser 1	Action	<p>Laser 1,</p> <p>Yesterday, Sunday 7_10_12, I used Laser 1, and it didn't work very well.</p> <p>I was using it to cut through 0.196" thick plywood, as I have many times.</p> <p>My regular setting to cut this material is 85% power and 14mm/s although on some batches of plywood I have been able to run it as fast 16mm/s and still have it cut through.</p> <p>Yesterday I used part of a sheet I had cut successfully on Laser 2 a few weeks before using the 85/14 settings.</p> <p>On Laser 1 those settings weren't cutting through the material. I turned the machine up to 90% and had to slow the cut speed down to 10mm/s for it to cut through.</p> <p>These settings made a mess of the project I was cutting. It caused a charred edge on the plywood and the finger joints it cut were too loose to be usable.</p> <p>In addition to costing me a trip from</p>		Tried to cut thin plywood.

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				<p>Oakland, and the two hours I spent trying to cut anything I could use during this week, I also wasted whatever material I cut.</p> <p>I don't know what's wrong with Laser 1, lens cleaning or focus, the laser tube itself, but it's currently not functioning well enough to be useful for my work.</p> <p>Best, Phil</p>		
36	8/11/2022	Laser 1	Action	not really		was marked yellow a month ago with a nondescript complaint. but many many people have used it since returning to green
37	10/24/2...	Laser 1	Action	Lens was dirty, causing blob-shaped beam. (horizontal lines wider than vertical lines.		Cleaned lens. Cutting beam is much sharper.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
38	12/18/2...	Laser 1	Request	<p>Idk what happens exactly but it seems the blower for laser 1 stopped mid job. (Brians job). Leather smoke wax thick in the enclosure. The job was done. I walked into the studio to a powerful smoke smell. Bian mentioned how the blower was slow to clear smoke. I went behind the machine and the blower wasn't going. There was thick smoke in the laser. I had Brian turn off and on the machine. That got the blower going and the smoke quickly evacuated.</p> <p>Idk details of order of events other than that. Like did the blower stop before the job was over. Or wax it preforming so poorly that it didn't evacuate the smoke before shutting off. (I don't think so)</p>		

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39	1/3/2023	Laser 1	Request	Needs a new exhaust hose. Has a million spots where light is shining through and it's leaving debris on the floor. Not to mention the venting into the space. I don't think red tag but not out of the question.		
40	1/5/2023	Laser 1	Request	<p>She did a weird thing. Stopped mid fill operation. The pause resume button made it clunk and stop again a few inches away. That happened a few times like the bearings hung up. I powered off the laser and it slid fairly smoothly. Didn't seem bad. Powercycled the laser and Shannon cut more jobs on it including more scanning it it worked fine.</p> <p>Keep an eye out for more issues.</p>		
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#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
41	3/10/2021	Laser 2	Action	Cleaned lens		Cleaned lens
42	4/14/2021	Laser 2	Action	Lid sensor on left side is not tripping when lid is shut. General wear and tear.		Manually bent it back into place.
43	4/14/2021	Laser 2	Action	Cleaned lens		Cleaned lens
44	4/14/2021	Laser 2		Lid sensor on left side is not tripping when lid is shut. General wear and tear.		Manually bent it back into place.
45	4/28/2021	Laser 2	Action	Lens		Cleaned lens

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46	5/26/2021	Laser 2		Lens		Cleaned lens
47	6/5/2021	Laser 2		Exhaust motor wouldn't turn on		Rebooted the system and the laser. The exhaust is functional again
48	8/10/2021	Laser 2		Laser thought left was right and right was left. Most likely a user had gone into "device settings" and moved the origin that they should have moved in "job settings." For reference, the device origin (the laser's native origin) is always top right corner, regardless of where the desired job origin is.		Reset the device origin to the top right corner.
49	9/30/2021	Laser 2	Request	According to Dan C, laser 2's boot image has a lightburn default of four cut passes. The setting needs to be changed and a new savepoint created. Not sure if laser 1 is the same.		N/A

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50	11/4/2021	Laser 2		Exhaust fan COMPLETELY clogged		Cleaned fan
51	11/10/2...	Laser 2	Request	laser will seemingly randomly cut off path ruining whatever cut user is making example in #laser channel		N/A
52	11/21/2...	Laser 2		PC isn't connecting to monitor, beeps 5 times and then the monitor can't find any signal.		This PC won't connect to any other monitor, this monitor will work on other PC's. Thought it might be the graphics card but swapping graphics cards with design-19 didn't help either.
53	11/21/2...	Laser 2		Computer won't boot		re-seated the memory sticks and everything appears to be working again.

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54	11/26/2...	Laser 2	Request	When I was cutting on Laser 2, it would cut and score lines that were not there. It was also cutting some small cuts out of place. This happened when I imported .dxf and .svg files into Lightburn and started the laser from the pc. When I started the job from the machine this did not happen.		N/A
55	12/5/2021	Laser 2	Request	I was cutting some plastic from the scrap bins and noticed that the laser cutting power began to decline. Towards the end of the cuts there was a shadow burn line offset from the cut line by about a 16th of an inch. I'm concerned that the plastic is not acrylic and that it may have dirtied the lens. I've thrown away all of the plastic scrap, but I think someone should check the lens to see if it needs to be cleaned		N/A
56	12/6/2021	Laser 2	Request	Power is being temporarily allocated from Laser 1 to supply the power to the laser 2 blower		N/A


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57	12/29/2...	Laser 2	Request	the levers on the "lid closed" switches are kinda wiggly, and do not always get pressed by the lid. Job then gets executed without laser beam on. ./ Beefier switches needed? Or maybe add a little guide that keeps the lever in proper alignment?		N/A
58	3/24/2022	Laser 2	Request	The bed of Laser 2 is not level. It is about 1 cm lower in the back left corner than it is in the front right corner. This is not a big problem if I'm cutting small sheets of 1/4 plywood, but when I'm cutting full sheets 1 cm is a large difference in focus.		N/A
59	4/18/2022	Laser 2	Request	laser stopped working, turned restarted and working now. last week it did something similar		N/A
60	4/20/2022	Laser 2	Request	The external blower with the hamster wheel inside was seriously clogged. Marty removed it, sandblasted it and sucked out all the debris stuck to the inside of the blower. He also did this for Laser 1, which wasn't as bad, but was getting there.		N/A

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61	4/27/2022	Laser 2	Request	The armature moves extremely slowly then would not recognize the origin point. It's not currently usable as far as I can tell		N/A
62	5/21/2022	Laser 2	Request	Chiller was emitting a continuous beep after machine had been on for several minutes. We were informed by another member that this had been happening the day before as well. The red "alarm" light was not lit and no alarm code on screen.		
63	5/24/2022	Laser 2	Action	Needed a new lens. Also issue with chiller not chilling.		<p>Gave it a new lens. Afterwards, I was able to cut through materials at lower power levels and quicker speeds than what is listed on the material samples. People will most likely need to retest any settings they've used before.</p> <p>It's working all good aside from the chiller maybe. I cleaned the filters on the chiller and added the proper amount of distilled water yesterday.</p> <p>I'm moving it to yellow because the chiller was fine today and the status / cause of the chiller issue is unknown. A member came in today and used it for six hours straight, and the alarm never went off. The temperature also stayed around 19C, which is where it should be. I was hoping to be able to diagnose the issue more, but it surprisingly just worked.</p>

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64	6/7/2022	Laser 2	Request	Crashes at zero		
65	6/7/2022	Laser 2	Action	Reported crashing when Z reached 0.		<p>None. All limit switches work correctly. Laser correctly resets Z0 when manually homing using bed switches and when using plunger on nozzle. There were no signs of crashing. Leaving at yellow due to chiller issue.</p> <p>Note on chiller issue. Last week I almost moved things to green since there hasn't been an issue for a while, even with extended use, but by chance the alarm went off while I was cutting. I paused the laser and waited a few minutes. Within that time the temperature went back to reading as normal. I began cutting again, assuming the temperature would spike back up, but I was able to continue cutting without any rise in temperature.</p>


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66	6/15/2022	Laser 2	Request	The chiller on Laser 2 is overheating. After running five jobs over the course of 2 hours, the chiller temperature exceeded 30 degrees and the alarm began to sound. I shut the machine off, then turned it back on without running a job to allow the chiller to continue to operate, but it is taking a very long time to return to operable temperature.		
67	6/16/2022	Laser 2	Action	Chiller.		<p>I dismantled and drained the chiller. Also, vacuumed and blew out all the dust inside. Reassembled and refilled the tank. I measured the temperature of the tank during operation. It seems the PID controller might be a couple of degrees C off.</p> <p>I'm going to leave the laser in red status until I get more time with it tomorrow to verify its state. If the chiller continues to throw warnings, my next suspect is the surprisingly small DC water pump inside.</p>
68	6/26/2022	Laser 2	Request	Is it possible to load AI on the Laser 2 computer or some other computer to edit/create files for LightBurn. AI is only Laser 1 and Trotec, so I am limited if those machines are in use.		

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69	7/1/2022	Laser 2	Request	The box that maybe is some kind of cooler started alarming with an error message while member Dan was cutting. Both devices were shut off. Not sure if it was getting too hot or wet.		
70	7/8/2022	Laser 2	Action	Chiller		Went through and diagnosed critical parts in the chiller. I found that the compressor has malfunctioned and was overheating (too hot to touch). We're ordering another chiller, and Laser 2 will remain unusable and red tagged until it's installed.
71	7/19/2022	Laser 2	Action	Chiller was dead.		Chiller has been replaced. At the moment the chiller must be manually turned on before using the laser, since it uses 110v and the laser outputs 220v. We'll eventually add in an adapter so it works as expected, but until then, I'm leaving it yellow tagged for awareness. I did check the laser's safety measures. and they function properly. So if you try to use it without the chiller on, the laser won't fire. Aside from that it should be operating normally.
72	8/11/2022	Laser 2	Action	Chiller needs manual power control		updating status as it was still listed as broken

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73	8/16/2022	Laser 2	Request	<p>Hi,</p> <p>On July 31st, I used Laser 2 to cut a large finger jointed box side in 5mm plywood.</p> <p>The cutting speed was 12mm a second.</p> <p>All appeared to work well, but when the laser returned to its starting position it was clear that there had been a skip in both the X and Y axis.</p> <p>I can only guess why this happened, but I feel it's important to report.</p> <p>Thanks to all of the people taking care of this equipment.</p> <p>Best, Phil</p>		
74	10/20/2...	Laser 2	Action	dirty bed		took out the bed of laser2. used a whole can of easy off. and it's way cleaner. Need another can or two and a power washer and maybe 5 years of gunk will be gone.

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75	10/24/2...	Laser 2	Request	<p>Marty mentioned this issue earlier, I just wanted to pull everything together here for documentation's sake.</p> <p>The laser beam is not firing (laser tube moves but nothing is being cut / etched and Pulse button does not work either).</p> <p>Power cycling and bypassing the lid sensors did not resolve it. Marty also tried adding water since level in chiller was very low and did a restore on the chiller. I located the keys to the laser's back compartment after he had left.</p>		

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76	10/24/2...	Laser 2	Request	<p>Beam will not fire, even for a "pulse" command from the HMI (human machine interface) screen.</p> <p>Jumpered out the two microswitches on the case lid. No change.</p> <p>Many things examined. Air purge OK, air exhaust OK. Chiller was on, but water level was below the bottom of the sight glass. Filled with tap water. (Understanding that distilled water would be better.) No joy.</p> <p>I did look in the machine setup parameters, and noted that "water flow alarm" is disabled. There -is- a flow detection switch on the Kern laser, and the water flow alarm is enabled there. It really does work, presenting a message on the HMI.</p> <p>Wondering now if we have killed the tube by operating without water flow. How do we confirm or disprove this?</p> <p>I'm out of ideas. Maybe someone can call Rabbit USA support during business hours on Tuesday? (513) 217-5707</p> <p>Longer term suggestions: (1) add</p>		

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				water flow detection switch, and enable alarm. (2) add a LED status light SOMEWHERE to visually display the lid open/close electrical state. The truth is inside the box, we need to instrument it so it is visible to us humans. <End of lecture>		
77	11/1/2022	Laser 2	Action	No pew pew		Replaced laser tube. Drained water from chiller and filled with distilled water. Flushed chiller and laser tube ensured no bubbles. Tested laser. It's green.
78	11/7/2022	Laser 2	Action	Cutting poorly, engraves fine. Upon further inspection, noticed a sizable scratch in the middle of lens. Cleaned lens and mirrors 1 and 2. Still not cutting well. Use with caution until fresh lens is installed.		Cleaned lens and mirrors, ran some tests

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79	11/16/2...	Laser 2	Action	slow movement of cutting smoke, and exhaust blower is kinda quiet		<p>1) Emptied debris bucket below bed, and scraped crud from the slots on the bucket's back wall. (Routine.)</p> <p>2) Disconnected hose from laser to blower, and looked inside. The fan blades were VERY encrusted with exhaust soot. This drastically reduces air flow. (And makes the blower quiet. ;)) Took the blower into the woodshop and scraped fan blades with a screwdriver, dumped residue into trash can.</p> <p>IMPORTANT - make sure to attach blower's output hose BEFORE starting or testing the blower. There WILL be some residual crud discharge. You've been warned.</p>
80	12/10/2...	Laser 2	Request	Getting inconsistent results with software interactions. Sometimes I will get an out of bounds error, sometimes when aligning the job the head will inconsistently start at the origin (i.e. I set the head to one spot, then hit frame or cut and it moves to another spot before starting), I also tried to cut a single vertical line and when tracing it, it would cut in the wrong direction. Not sure if some software issue? Also seeing Chinese characters in the laser menu when errors occur.		

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81	1/2/2023	Laser 2	Request	I think a door switch is getting flaky. Had the laser not burn right at first and I think leaning on the lid helped. Then during an engrave it missed one line out of a few hundred.		
82	1/2/2023	Laser 2	Action	Nevermind. I'm the wrist lanyard for a tape measure was in the lid seam.		Moved the tape measure
83	1/3/2023	Laser 2	Request	The lens on laser 2 previously had a scratch. Not it also has a black spot I can't lift when cleaning. Purchase request for new lenses is still pending		
84	1/19/2023	Laser 2	Request	Smoke was clearing somewhat slow in class tonight. simultaneous jobs on laser 1 were way less smoky. The blower cage should be inspected and cleaned		
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85	3/1/2021	Laser 3	Request	Very weak beam. Wouldn't cut at all. Barely marked at all.		N/A
86	3/10/2021	Laser 3	Action	Cleaned lens		Cleaned lens
87	3/10/2021	Laser 3		Cleaned lens		Cleaned lens
88	4/14/2021	Laser 3	Action	Cleaned lens		Cleaned lens

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
89	4/18/2021	Laser 3	Request	This is for the Trotec laser. The laser does not seem to be perpendicular to the platform. I cut a 1" diameter circle out of 3/16" plywood, and you could visibly see a slant on the resulting cylinder. You could not rotate the piece in the hole that it came from. For many cuts this is immaterial, but I am making parts cut in different places that need to fit together. Repair is probably just an adjustment to one of the thumb screws at the laser head. I did not change the tag on the machine to yellow.		N/A
90	4/18/2021	Laser 3	Request	This is for the Trotec laser. The laser does not seem to be perpendicular to the platform. I cut a 1" diameter circle out of 3/16" plywood, and you could visibly see a slant on the resulting cylinder. You could not rotate the piece in the hole that it came from. For many cuts this is immaterial, but I am making parts cut in different places that need to fit together. Repair is probably just an adjustment to one of the thumb screws at the laser head. I did not change the tag on the machine to yellow.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
91	4/23/2021	Laser 3	Request	Liz Sabol noted that the trotec beam is not vertical (by about a degree), which messes up her etching due to the registration mark on her jig being at a different height than the top of her pieces to be etched. I looked briefly at the housing of mirror 3 and couldn't determine how to adjust the lens angle. According to Trotec publications the thumb screws at mirror 3 are for removing the lens, so maybe the hex head screws are the adjustment? IDK. I suspect that the angle is steep enough that if it is brought back into vertical it might hit the side of the air nozzle, so whoever tackles this, be ready to possibly adjust mirror 2 as well. Or maybe it'll be easy?		N/A



#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
92	4/23/2021	Laser 3	Request	Liz Sabol noted that the trotec beam is not vertical (by about a degree), which messes up her etching due to the registration mark on her jig being at a different height than the top of her pieces to be etched. I looked briefly at the housing of mirror 3 and couldn't determine how to adjust the lens angle. According to Trotec publications the thumb screws at mirror 3 are for removing the lens, so maybe the hex head screws are the adjustment? IDK. I suspect that the angle is steep enough that if it is brought back into vertical it might hit the side of the air nozzle, so whoever tackles this, be ready to possibly adjust mirror 2 as well. Or maybe it'll be easy?		N/A
93	4/28/2021	Laser 3	Action	Lens		Cleaned lens
94	4/28/2021	Laser 3	Action	Lens		Cleaned lens

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
95	4/28/2021	Laser 3		Lens		Cleaned lens
96	5/26/2021	Laser 3		Lens		Cleaned lens
97	8/26/2021	Laser 3		Some sort of brown liquid was on the nozzle and dripping on my board.		Had Devin check it out, no sign of oil from the compressor. Cleaned the lens and nozzle.
98	9/13/2021	Laser 3	Request	There seems to be something on the lens obstructing the beam--it is hard to see on the surface of what I am trying to cut.		N/A
99	9/13/2021	Laser 3	Request	There seems to be something on the lens obstructing the beam--it is hard to see on the surface of what I am trying to cut.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
100	9/14/2021	Laser 3		Even with two passes on 1/8 inch ply, wasn't cutting through. Checked the lens, it was hazy and had spots on it.		Cleaned the lens
101	11/5/2021	Laser 3		Trotec lens was dirty		Cleaned it, though there is still a persistent spot just off center.
102	11/16/2...	Laser 3		Dirty lens on the Trotec, also noticed some oddities in the software - it wants to send jobs directly to the upper left corner instead of landing them in the queue to be placed.		Cleaned the lens. Found and unchecked the box that was selected for printing directly, but even after a restart, it persisted. Restarted again after I used it.
103	11/22/2...	Laser 3	Request	Poor resolution		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
104	2/16/2022	Laser 3		The honeycomb bed has been warped and broken for a long time. It's difficult to find a flat spot so that materials cut through.		I cleaned the tray and platform, removed the honeycomb table and separated it from the frame. Took measurements of the honeycomb, flipped it, then re-installed it in the frame. A request for new honeycomb will be made. The flip will at least somewhat reduce the sagging in the bed.
105	4/5/2022	Laser 3		Wasn't cutting through, dead spots in bed.		Cleaned the lens - it was fogged.
106	4/19/2022	Laser 3		Member mentioned it wasn't cutting through, checked the lens. It was visibly dirty.		Cleaned the lens

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
107	4/20/2022	Laser 3	Request	<p>Cleaned the lens yesterday, and tried cutting a familiar file on the same type of wood that I usually use for it, and multiple cutting passes would not go through. I tried higher cut power, and still not satisfactory. (1/8" cherry) test cuts show straight lines go through, but not curved.</p> <p>I researched mirror checks and performed a basic check. (no parts were adjusted or altered in the procedure!) I found the beam is hitting low and off center to the left in all four corners of the bed. Possible conclusion is that mirror 1 is off, which is not recommended to be a user adjustment. I'll post some photos in Discord.</p>		N/A
108	4/26/2022	Laser 3		Bed and Laser alignment are off, resulting in bad cuts and very light engraving.		Cleaned all three mirrors, removed debris from inside maintenance panels. Made measurements to verify the bed is off. Will be back to complete more maintenance.
109	5/5/2022	Laser 3		Trotec not cutting through material. Bed skewed.		Aligned all mirrors from back to front. Cleaned all mirrors and lens. Levelled the engraving bed so that it's perpendicular to the laser gantry. Afterwards, I was able to cut through .25" ply in one pass.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
110	5/24/2022	Laser 3	Action	There were some issues with engraving that wouldn't allow for a full grey scale.		<p>Everything in software said that the machine was using a 1.5 lens, so I've changed the lens with a 1.5, which results in finer engraving anyway. Also note in the picture that the air assist cone is not present on the laser head. This is needed to obtain proper focus and doesn't matter as much as long as we're not cutting extremely smoky materials (looking at you masonite) all the time. I've also made new focus tools, which can also be seen in the photo.</p> <p>Note that a new lens will most likely affect any power/speed settings that have been used before.</p>
111	6/7/2022	Laser 3	Request	Trotec is not etching evenly. It's patchy, skipping, and not fusing Ceramark properly at all. Worked fine a month or 2 ago when I was in last. Also skipping sections on cutting.		

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
112	7/19/2022	Laser 3	Action	Uneven rastering		Cleaned and re-greased x-axis' linear rail. Tightened x-axis drive belt. Apparently we were using a 2.0" lens, despite it being entered in Job Control that we were using a 1.5" lens, which is what I replaced it with previously. I installed a 2.0" lens, reinstalled the air assist cone, and changed the software to note a 2.0" just for consistency. I didn't have any issues with my raster tests after dialing in the settings.
113	8/5/2022	Laser 3	Request	Using familiar settings such as "1/8 inch plywood" laser is not etching at all. Makes some markings for cut lines, but not going through. Went up much higher in power, but there was a loss in detail on engraving.		
114	8/30/2022	Laser 3	Action	Engraving and cutting has been getting more faint at the same time that a generic lens was installed. To determine if it was the lens, a mirror alignment problem or something else, I set out to test the lens and mirrors. It appears that the problem is bigger than the lens and mirrors, as the tube is not firing at all. No smoke, no burn. That was sudden. Further research into the tube is needed, and another call to Trotec.		Attempted mirror test and engraving test. Found no burn. Red tagged it.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
115	11/29/2...	Laser 3	Action	No laser		<p>Did a bunch of testing. No lase in the laser.</p> <p>Most notable thing that might be helpful when talking to a tech. When doing a test pulse the red led on the laser by the signal port fades in slowly over 5 seconds</p>
Equipment:		I				
116	9/13/2022	Industrial ...	Request	<p>Y endstop is only held on with a twist tie and it slipped down and the machine crashed when homnig. I've started fabricating better x and y endstop brackets.</p> <p>the wires for the x endstop are only twisted together and not soldered, crimped or insulated. so that needs to be done too.</p>		
117	12/6/2022	Industrial ...	Action	sent out the geckodrive for repair		sent out the geckodrive for repair
Equipment:		F				

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
118	1/25/2021	Prusa 3D P...	Request	Bed preheat error preventing print. Either thermistor or Heater is damaged. Need thermometer to check accuracy of thermistor. If it is fine, replace heater		N/A
119	2/21/2021	Prusa 3D P...	Request	Extrusion point very gunked up. I cleaned outer surface as best as possible. PLA loads very slow so possible internal clog? Surface not remaining consistent temperature in quads. Can we get rid of the Pinda setting? Is it a necessary feature? I flagged red since I tried all the normal maintenance and cleaning ect		N/A
120	2/25/2021	Prusa 3D P...	Action	First layer failures/heatbed temp inconsistencies		Updated Lab slicer (PrusaSlicer) & Printer Firmware. Also recommending lowering the first layer speed to 10mm/sec within the slicer for best results
121	8/10/2021	Prusa 3D P...		Filament lifting off bed		Speed slowed to 95% on printer, Z height adjusted to 0.400 on printer, temp adjusted down 5 degrees in Slic3r

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
122	8/21/2021	Prusa 3D P...	Request	The beginning print cycle is skipping it's Test Line causing prints to fail more often.		N/A
123	9/12/2021	Prusa 3D P...	Request	Member reported that the prusa will not accept filament through feed, likely clogged up. I don't have the clearance to work on this machine.		N/A
124	9/14/2021	Prusa 3D P...		Bad flow. Maybe scorched-on plastic inside the nozzle? Can push filament rapidly through nozzle by hand, but during initial z height calibration the flow drops to about 50% after half an inch or so, killing any chance at bed adhesion.		Tried to unclog the nozzle without removing it from the machine but was unable to. Could not get nozzle removed from heater. Will probably require removal and disassembly of print head. Pulled a lot of burnt plastic from the heat brake so there may be a leak there.
125	9/16/2021	Prusa 3D P...		Nozzle (?)		Tried to do a cold pull maneuver... Did not work. Tried to use acetone to clean nozzle... No effect.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
126	9/23/2021	Prusa 3D P...	Request	Just recording a nozzle crash mark I just saw in bed. Evidently a battle scar from a calibration attempt last Thursday.		N/A
127	9/23/2021	Prusa 3D P...		Printer still not printing well		Svi and I looked at this a bit more, and were able to get a semi-functional print by manually upping the extrusion rate to 150% (which was too high, and fused a living joint together, so a lower percentage would be ideal). This flow rate was a one-time machine override, not a slicer setting. Z-height calibrations (unable to adjust flow rate) consistently show underextrusion. I'm wondering if one wire of the stepper motor is broken, leading to a lower rotation rate due to lost pulses.
128	9/23/2021	Prusa 3D P...		Broken filament holder arm		Printed & replaced arm. Nozzle issues still persist.
129	10/16/2...	Prusa 3D P...		Extruder tip needed replaced		A member replaced the tip (with almost no help from me) and started up a print. Check in the morning for possible bird's nest, but it's running well so far.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
130	10/23/2...	Prusa 3D P...	Request	nosel not extruding filament		N/A
131	10/24/2...	Prusa 3D P...		Printer clogged again, pla extruded above heater block.		Dismantled and cleaned heater block, cold-pulled through nozzle and extruded burnt material. Printed a benchy which turned out well.
132	10/25/2...	Prusa 3D P...		It has been reported to me that it is not extruding filament.		Made this report as I am not trained in the 3d printer.
133	10/28/2...	Prusa 3D P...		Filament not pulling through?		Printer now works. I have to assume that the issue was that someone confused the ABS filament for the PLA filament. The only black filament on the shelf was abs. I went to the way back and got the last spool of black pla and made a great print in high detail. Adhesion to the bed still sucks in spots where residue is left behind. Need 99% alcohol.


#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
134	11/4/2021	Prusa 3D P...		Z heights need calibrated. Nozzle seems to not be installed correctly. PLA is pouring out of the top of the heater block. Needs disassembled and installed correctly.		Diagnosis
135	11/5/2021	Prusa 3D P...		Plastic was seeping from the top of the heater block and dripping blobs down onto the top of the prints during printing, leading to failed prints. This is likely because the heat break was not seated into the heater block far enough to contact the nozzle even when the nozzle is screwed all the way into the heater block.		Unscrewed the nozzle down away from the heater block a few millimeters, then screwed the heat break into the heat block until it contacted the nozzle, then tightened the nozzle back in firmly against the heat break. The shoulder of the nozzle is NOT in contact with the heat block, and this is intentional. The seal should be made between the heat break and the nozzle, with the heater block just providing the threads to make it possible to push them together. The pinda sensor was lowered slightly, and the z-height was recalibrated to take into account the additional vertical drop of the new nozzle position. The heater block was not completely cleaned, but it should be ok. If more leaking is found in the near future, tightening the nozzle while the machine is fully hot may be needed.
136	6/4/2022	Prusa 3D P...	Action	Regular maintenance		Oiled the rails

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
137	6/25/2022	Prusa 3D P...	Request	Printer had an issue with not sticking to the bed, when I was trying to troubleshoot it it seemed like the head got kind of clogged and wasn't heating up enough. I ran out of time to troubleshoot it but can do so tomorrow morning also.		
138	6/26/2022	Prusa 3D P...	Action	Print not sticking to bed and gumming up around nozzle per 6/25 post.		Cleared the nozzle with heat, brass brush, and two cold pulls and got some good prints yesterday. It still seems like it's not quite heating up enough when changing the filament, but it cooperated when I preheated the nozzle to ABS temp instead of PLA and then loaded PLA filament.
139	6/28/2022	Prusa 3D P...	Action	no problem		Replaced the nozzle. ran xyz calibration, calibrated the first layer height. ran test print.
140	6/29/2022	Prusa 3D P...	Action	It seems like I left the PC in a reboot loop after updating it yesterday when I ran out of time updating it before close.		Today I fixed it up I don't think there are any more problems. updated the bantam software on it too.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
141	6/30/2022	Prusa 3D P...	Request	Don't take the keys away from the new guy. I broke the lever on the tensioner. Filament was stuck and wouldn't unload and I gave it a little too much pressure I'll print a new part and get it installed next week. Everything works fine unloading may require using one of the yellow wedges to open the tensioner.		
142	7/1/2022	Prusa 3D P...	Action	I broke the extruder idler lever yesterday		Installed new extruder idler re calibrated printer.
143	8/15/2022	Prusa 3D P...	Action	Added super lube to printers. as part of routine maintenance		Added super lube to printers. as part of routine maintenance
144	8/16/2022	Prusa 3D P...	Action	Threepio is ready for action, it has a textured pei sheet that should be good for PETG.		Threepio is ready for action, it has a textured pei sheet that should be good for PETG.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
145	9/2/2022	Prusa 3D P...	Action	None... yet...		I dumpster dived next door and got a bunch of white melimine brim a busted up armoire. Decided it was worth starting a printer enclosure.
146	9/14/2022	Prusa 3D P...	Request	Blob of death on Threepio. I got it in encased but still need to put the extruder back together. Marking yellow since Artoo and chopper are online.		
147	9/28/2022	Prusa 3D P...	Action	Threepio has recovered from the blob of death Artoon and chopper first layer calibration optimized. cleaning filament ran though them.		Threepio has recovered from the blob of death Artoon and chopper first layer calibration optimized. cleaning filament ran though them.
148	9/28/2022	Prusa 3D P...	Action	no problem		updated the computer software including prusa slicer 2.5 with arachne!!!!
149	10/30/2...	Prusa 3D P...	Request	Threepio is tending toward blobs of death. Jeff worked a little on it while Joe was running his job but issue kept persisting.		

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
150	12/8/2022	Prusa 3D P...	Request	Threepio has been a prissy droid lately. The textured bed had been a problem with pla bed adhesion. I washed it tonight but beware.		
151	12/22/2...	Prusa 3D P...	Request	unable to print on ARTOO, Z axis appears to be off. Switched to THREEPIO and printing fine. Probably operator error but I think a used the same approach as THREEPIO.		
152	1/7/2023	Prusa 3D P...	Action	Resetting to Green. Artoo is working.		Resetting to Green. Artoo is working.
Equipment:		F				
153	1/19/2021	Resin 3D P...	Action	Printer need general maintenance and resin safety & supply system needs to be fleshed out		Taking offline
Equipment:		3				

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
154	3/8/2021	3D Scanner	Action	Missing power cable		Purchased and installed new power cable.
155	6/24/2022	3D Scanner	Request	The scanning software isn't able to complete calibration. I was trying to update and calibrate and the software froze at the same point 3 times in a row. on the 3rd calibration step 80% complete it froze and didn't get any farther. I'll have to see if I can coax it to work better again later, or on a different pc. but man that software just feels like it barely works on a good day.		
156	7/7/2022	3D Scanner	Action	wasn't calibrating		the calibration completed marking green for now.
Equipment:						

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
157	8/11/2021	Main Dust ...	Request	<p>The clear bags at the bottom of BOTH air filters have once again developed holes near the clamping collars. (The music produced is ... interesting.)</p> <p>Perhaps we need to purchase or make some bags that are clear at the bottom, but which have a short collar of tougher material under the clamping collar.</p>		N/A
158	8/11/2021	Main Dust ...	Request	<p>Rear clamping strap spring is bent out of shape and will not hold bag onto dust cylinder. (Previously hacked with shims of wood.)</p>		N/A
159	8/11/2021	Main Dust ...	Request	<p>The clear bags at the bottom of BOTH air filters have once again developed holes near the clamping collars. (The music produced is ... interesting.)</p> <p>Perhaps we need to purchase or make some bags that are clear at the bottom, but which have a short collar of tougher material under the clamping collar.</p>		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
160	8/11/2021	Main Dust ...		Clamp bent out of shape and wouldn't hold bag on dust collector		Used billboard vinyl as a clamping collar to hold bag
161	8/11/2021	Main Dust ...		Clamping strap wouldn't hold bag on dust collector		Used billboard vinyl as a clamping collar to hold bag onto dust collector
162	8/20/2021	Main Dust ...	Request	Collection bag keeps falling off due to bad tension band		N/A
163	8/20/2021	Main Dust ...	Request	Collection bag keeps falling off due to bad tension band		N/A
164	8/20/2021	Main Dust ...		Bad tension clamp causes bag to fall off		Cord retensioned the spring and Remy ordered a new bag clamp for backup

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
165	10/21/2...	Main Dust ...		Empty dust bags and bin.		Emptied
166	4/21/2022	Main Dust ...	Request	Both collection bags are ripped along the bottom seam. I've tried taping them but it's only a matter of time until they blow. We need new bags, and we should also try to *thoroughly* clean the dust filters to reduce the air pressure on the bags.		N/A
167	4/24/2022	Main Dust ...	Request	<p>Cleaned 20 gallons of sawdust out of the filters, and sealed the bottoms of the bags with wooden clamps. Am I a hero? Maybe.</p> <p>The dust collector is running much better now, but needs to be regularly emptied and the filters brushed down to ensure sawdust buildup like this doesn't happen again. I recommend the filters be brushed down daily, or at least as often as the chip bin is emptied.</p> <p>The piping leading to the table saws is sagging and needs to be re-hung from the ceiling as soon as possible.</p>		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
168	6/27/2022	Main Dust ...	Request	3rd wheel doesn't roll/turn correctly This likely doesn't help when having members clean up after themselves		
169	6/27/2022	Main Dust ...	Request	Shop Vacs aren't an item, we probably have filters in a closet, I'll try to check		
170	1/17/2023	Main Dust ...	Action	Two members came to me about the blinking red light on the nearly empty dust collector. I tried wiping off the lens but it made no effect.		Amber decided to power off the sensor until it can be made reliable.
171	1/19/2023	Main Dust ...	Action	lost it's nuts		few weeks ago I put on some ill fitting nuts on the cover by the dust sweep cables. today I replaced them with proper fitting nylock ones.
Equipment:		T				

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
172	1/18/2021	Table Saw 1	Request	Start/Stop switch does not consistently start saw. Many times over the day (10-15+) I would pull the paddle out to start and blade did not spin up. When this happened, pushing the paddle back in slightly (1/16") would cause it to start. Problem was inconsistent and seemed to come and go.		N/A
173	1/21/2021	Table Saw 1	Action	Blade will not turn on because maintenance panel interlock switch won't activate. Broken latch prevents panel from locking shut.		Was able to fix the latch, so the panel now stays shut, allowing the saw to turn on.
174	1/21/2021	Table Saw 1	Request	Overtime, the safety and critical flatness of the fence has been compromised when folks cut with the blade right against it. Increases the likeliness of kickback and cause inaccuracies. Can be solved by incorporating a sacrificial fence		N/A
175	1/21/2021	Table Saw 1	Action	Blade will not turn on because maintenance panel interlock switch won't activate. Broken latch prevents panel from locking shut.		Was able to fix the latch, so the panel now stays shut, allowing the saw to turn on.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
176	1/21/2021	Table Saw 1	Request	Overtime, the safety and critical flatness of the fence has been compromised when folks cut with the blade right against it. Increases the likeliness of kickback and cause inaccuracies. Can be solved by incorporating a sacrificial fence		N/A
177	1/21/2021	Table Saw 1		Blade will not turn on because maintenance panel interlock switch won't activate. Broken latch prevents panel from locking shut.		Was able to fix the latch, so the panel now stays shut, allowing the saw to turn on.
178	1/28/2021	Table Saw 1	Action	Dust port completely clogged.		Pulled off hose & cleaned. Vacuumed excessive dust from gear mechanisms.
179	2/5/2021	Table Saw 1	Action	Sleds get stuck half way through a cut		Used a plunge router to slightly widen the rail slots on the outfeed table

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
180	2/25/2021	Table Saw 1	Action	interior door hinge		Joe Davis was kind enough to clean out the hinge and reinstall the door.
181	2/25/2021	Table Saw 1	Request	Interior blade access panel was not installed during use, and the hinge hole is now full of sawdust, preventing reinstallation of the panel.		N/A
182	2/25/2021	Table Saw 1	Action	interior door hinge		Joe Davis was kind enough to clean out the hinge and reinstall the door.
183	4/1/2021	Table Saw 1	Action	Power being sporadic		I cleaned out the switch, which had some dirt in it, but this is a temporary fix (the switch isn't really meant to be dismantled, so it is in a structurally compromised state). The \$0.50 switch is integral to the brain-box of the machine, which can only be ordered as a complete unit. I'll find a part number and submit a purchase request.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
184	4/1/2021	Table Saw 1	Request	When you turn on the sawstop, the blade doesn't spin for about 10 seconds or more, then it starts up. Sometimes after it starts it is fine but other times it powers down. It was working ok at first, then it started with the dado blade cartridge. We (Alexis and I) changed it up and tested it with the regular cartridge and it kept happening. Please pray for Rick, because we love him.		N/A
185	6/16/2021	Table Saw 1	Request	During class tonight after switching out the dado stack, there was an error message - "Adjust position of brake cartridge". So I took everything out and reinstalled, including the brake. I turned the saw back on and got a green light. I turned the saw on and the brake lightly touched blade. I really don't know how this happened. My students as my witness, nothing weird was going on and my material hadn't even touched the blade. *So embarrassing*. I wasn't sure how to remove the blade and brake so it is as it is. Happy to come in and help fix.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
186	6/17/2021	Table Saw 1		brake stuck in machine		Was able to pull out the brake with a helper by clamping the brake spring closed and pulling the blade out. Still needs a new brake to get back online. The dust collection was completely clogged down through the hoses on both saws.
187	6/28/2021	Table Saw 1		Brake Cartridge too close to blade		Vacuumed interior of cabinet. Installed new brake cartridge and re-adjusted the height relative to the blade. Someone had already removed the blade with old cartridge. Couldn't find the "yellow height gauge", but used a nickel per Sawstop's recommendations. It would be helpful to keep the large yellow gauge or nickel on hand for future alignment checks. https://www.sawstop.com/support/service-tips/industrial-cabinet-saw#pdfs
188	8/22/2021	Table Saw 1	Request	Stop saw came on when someone put a wet board to cut. I was told stop saw will need to be replaced.		N/A
189	8/23/2021	Table Saw 1		Saw stop activation due to wet wood		Assisted Remy in replacing saw stop & blade.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
190	10/22/2...	Table Saw 1		Splitter clamp handle fell off at an unknown time and was found in the dust port. Splitter could have come unclamped while saw was in use. The set screw to secure it was completely missing.		Was able to find a new set screw in the maint. room and get everything reassembled.
191	10/22/2...	Table Saw 1		Dust port was completely clogged with birds nest of plastic shavings that had melted together beneath the blade.		Cleared out port. Lift mechanism still needs to be vacced or blown out.
192	10/30/2...	Table Saw 1	Request	The height crank is starting to get stiff, so the gears inside the cabinet need to be cleaned off and re-lubed ASAP to prevent damage.		N/A
193	11/4/2021	Table Saw 1	Request	The riving knife holder seems to have been knocked out-of-plane with the blade, and any cut gets bound up on the riving knife as it exits the blade. Super unsafe.		N/A
194	11/4/2021	Table Saw 1		The dust collection hose was completely clogged and providing no air flow. Melted plastic shavings clumped together in the hose was the root cause. The cabinet was absolutely full of sawdust.		Unclogged the hose & shoveled out the cabinet

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
195	11/5/2021	Table Saw 1		Fence misaligned with the blade. Rear was closer to the blade, causing burning and kicking.		re-aligned the fence to the miter slot. Blade is still in alignment.
196	11/5/2021	Table Saw 1		iving knife misaligned		Was able to get it realigned using the two hex-head bolts holding the clamp structure to the carriage. Even though it looked like the riving knife had been bent to the right, it was actually just rotated slightly counter-clockwise (looking down at the table). It probably stopped some kickback and paid the price.
197	12/1/2021	Table Saw 1	Request	Saw stop activated		N/A
198	12/16/2...	Table Saw 1	Request	The black extension table has collapsed below the level of the outfeed table and is causing extremely dangerous situations where the workpieces are getting stuck half way through a cut.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
199	1/23/2022	Table Saw 1	Request	The height adjustment crank is extremely stiff. Continued use in the current state will cause the bevel gears to strip out (they are already getting noisy, which indicates extreme wear. A replacement spring washer at the bevel gears was requested many months ago, but maybe was never ordered? Adam cleaned and dry lubed the bevel gears, worm gear, and columns, but that had very little effect on the stiffness. I believe the manual calls for grease (this needs to be verified), which may penetrate deeper into the worm gear lift mechanism.		N/A
200	1/23/2022	Table Saw 1		Extreme dust build-up in cabinet due to clogged vacuum vent.		Adam cleaned the blockage out of the vac line and cleaned out the cabinet. A layer of dust on and around one of our saws is usually a sign of a clogged vac line, as the dust collection is generally very efficient. Members and Techs should be trained to keep an eye out and check the lines if dust is seen.
201	2/2/2022	Table Saw 1	Request	Saw 1 (Rick) is not working properly. Red LED remains blinking, and green LED never comes on.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
202	2/5/2022	Table Saw 1		Riving knife pit of alignment		Riving knife realigned
203	2/6/2022	Table Saw 1	Request	Saw 1 is not working properly. Red LED remains blinking, and green LED never comes on.		N/A
204	3/3/2022	Table Saw 1		Power was not cycling properly		Tested table saw with normal power sequence. No issues. Techs should monitor closely for the next 48hrs

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
205	3/5/2022	Table Saw 1	Request	The table height adjustment crank has gotten worse, and was a notable "this is not working right" moment in the woodworking class. Continued use will cause permanent damage to the gears & lift mechanism. This issue was brought up as a fix ASAP item, and it has only gotten worse. A thorough lubing is needed. Adam added dry lube? to the visible gears and shafts a few weeks back with no real/lasting effect. Manual calls for grease on all relevant surfaces. The spring washer on front crank's shaft just inside the cabinet wall still needs to be replaced.		N/A
206	3/20/2022	Table Saw 1	Request	Spring washer at front crank needs to be replaced. Previously reported, just putting it back on yellow status.		N/A
207	3/20/2022	Table Saw 1	Request	Checked out on 3/20/22; Cleaned and lubricated (with dry lubricant) the worm gears and the blade now raises and lowers without seizing. Wear on the worm gears has made them a little loose in the teeth, but I don't believe this presents a serious problem.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
208	5/19/2022	Table Saw 1	Request	The rear height adjusters on the throat plate have been messed with, and no longer hold the throat plate down in the table. The table-side pins should rest against the bottom of the plate itself, and the edge of the plate-side pins should lock underneath the edges of the table-side pins. The current setup is very floppy and does not provide a solid work surface.		
209	6/2/2022	Table Saw 1	Action	The throat plate was loose in the back due to improperly adjusted height & locking pins.		Pins in table and on throat plate adjusted to proper heights. Leaving at yellow due to other pending issues.
210	6/2/2022	Table Saw 1	Action	Dust port clogged all the way through cabinet.		Removed clogs including quite a few strips that had fallen past the blade and got jammed in the ribbed hose. Leaving status at yellow due to other pending issues.
211	6/22/2022	Table Saw 1	Action	Thrust washer needs replaced.		This part has been ordered

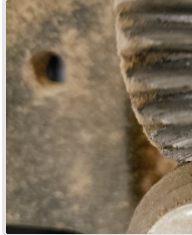
#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
212	7/6/2022	Table Saw 1	Action	protection system triggered		Adam has replaced the cartridge in this saw, but noted that we are OUT of general purpose / rip blades. He installed a 60-tooth blade because that's what was available.
213	8/23/2022	Table Saw 1	Action	The throat plate has not been level with the table for a couple months.		Finally got around to adjusting the height screws.
214	10/18/2...	Table Saw 1	Request	There is a new somewhat significant bite taken out of the tablesaw fence and Sarah mentioned that it was causing problems in class where the wood was rocking when it encountered this bite. Do we just install some HDPE strips to the fence faces or is there a better idea?		
215	11/28/2...	Table Saw 1	Action	Found that the dust hose had come detached from the saw carriage, filling the cabinet with sawdust.		I reattached the hose, but this has fallen off repeatedly in the past. Time to look into a different hose clamp, or re-cutting the end of the hose. The port on the carriage just isn't very long, so the clamp doesn't have a lot to hold on to.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
216	11/29/2...	Table Saw 1	Action	Noticed an abundance of wood chips and sawdust around and under the table saw. Vacuum hose was not attached and motor cage was filled with sawdust and spilling onto the floor.		Disassembled and cleaned it up. Jeff reattached the hose.
217	12/15/2...	Table Saw 1	Request	Sarah brought this up recently, but I really experienced it for the first time tonight, and wanted to underscore what she said. The left face of the fence is damaged to the point of being dangerous. It could not hold a straight piece of stock without it rocking. It is a safety hazard and needs to be addressed. I suspect we could probably swap the right and left sides, which would at least put the warped side on the significantly less-used side while we consider options for long term replacement.		
218	1/5/2023	Table Saw 1	Action	Saw dust had completely clogged the dust extraction port. Cabinet was filling with debris.		Pulled off the hose and removed clog. Small cutoff seemed to be the source, but it should never have gotten so built up without someone noticing.
Equipment:		T				

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
219	1/29/2021	Table Saw 2	Request	Initial setup. No issues.		N/A
220	2/5/2021	Table Saw 2	Request	Sawdust buildup inside cabinet needs to be vacuumed out. Dust gate is being left closed during use.		N/A
221	2/15/2021	Table Saw 2	Action	Clogged dust collection chute		Removed compacted material. A good bit was acrylic which probably was heated enough to meld with saw dust at some point. The blockage was very dense allowing zero airflow. Also, Leslie vacuumed the cabinet.
222	2/20/2021	Table Saw 2	Request	There's a grinding sound being produced when the blade is angled to 45°. It is only occurring when the blade is approaching 45°, not when it's being backed away. I noticed resistance in the blade approaching the 45° angle as well.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
223	2/21/2021	Table Saw 2	Action	Worm gear and trunnion are grinding as the blade angle approaches 45 degrees.		<p>I cleaned and greased the worm gear according to the instructions here: https://www.youtube.com/watch?v=D_6SwlawU7U. However, the grinding sound persists. I believe the alignment of the worm gear is off - the rod connecting the worm gear to the crank wheel can move back and forth about 3/8", and the grinding sound happens at its most inward position. I suspect repeated heavy cranking on the wheel has shifted the lock collets on the worm gear rod, but I'm unsure of how to reset them to the proper position.</p> <p>The saw still cuts fine, but continued adjustment of the blade angle will wear down the teeth of the worm gear and the trunnion. I recommend bevel cuts be prohibited on this saw until this can be corrected.</p>
224	2/28/2021	Table Saw 2	Action	Height adjustment would not go all the way up		<p>Used an awl to remove heavily compacted sawdust from the height adjustment gear. Also lubed both vertical guide rails.</p> <p>The tilt seems to move to 45 normally without grinding. I did blow out some dust from the trunnions before checking, but I don't think that changed anything. Adam, maybe you can replicate the tilting issue for me next time we cross paths in the shop? Leaving status at yellow for now.</p>

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
225	7/8/2021	Table Saw 2		Dustin pointed out a very dull blade.		Told him to throw it away, as it was actually very dull, and not just covered in pitch.
226	11/4/2021	Table Saw 2		Dust collection hose had come undone from the dust shroud. The cabinet was completely full of sawdust.		Reconnected the dust hose and shoveled out the cabinet
227	12/23/2...	Table Saw 2		Missing brake		Installed newly ordered brake
228	3/20/2022	Table Saw 2	Request	Checked out on 3/20/22; Cleaned and lubricated (with dry lubricant) the worm gears		N/A
229	4/26/2022	Table Saw 2	Request	Blade has some burned sticky residue. Not sure from what. If it's used, it will mess up your piece as it is leaving residue on the wood.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
230	6/22/2022	Table Saw 2	Action	Blade was dirty		Blades were cleaned a little while back and I think it missed getting reported. Blade seems clear of terrible gunk, but members should be advised to check blades before cutting and if need be bring you own blade in. Blade cleaning kit has been ordered to make future cleaning more accessible and streamlined.
231	7/6/2022	Table Saw 2	Request	Table saw 1 and 2 brakes were activated. Marty is submitting to SawStop to hopefully get free replacements. New ones ordered in the meantime. The original request by Marty failed to post so I am re-submitting it		
232	7/13/2022	Table Saw 2	Action	Missing brake module		Installed newly arrived brake module.
233	12/29/2...	Table Saw 2	Action	Hand crank for lift is gritty, mentioned by Sam several weeks back.		This was bad. Like really bad. Metal gears eating metal gears bad. I added grease, but a lot of damage has already been done. It is functional, but still feels gritty due to damaged surfaces. It'll continue to eat itself for a while before replacement gears become critically necessary.
Equipment:		V				

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
234	1/20/2021	Woodwor...	Request	The top wheel tilt mechanism has snapped and the blade will no longer stay on the wheels. It looks to have been repaired in the past with epoxy of some sort (ask Marty for details), but it pulled apart again. I'm submitting a purchase request for the replacement part.		N/A
235	1/23/2021	Woodwor...	Action	Upper wheel shaft hinge is still broken, and replacements are out of stock. Ordered compatible Wilton part (same parent company as JET)		Jet part 5782531 is out of stock everywhere, but I was able to buy Wilton (same parent company) part 5782531. Should arrive next week. Two items to note for posterity: Wherever "this part" is shown in product photography, you can see it labeled as part 100019, which may indicate compatibility with that part (which is more broadly available), or may not. It's also worth noting that while this part is aluminum, the visually identical Delta saw of this kind has a cast iron hinge upgrade available. Compatibility or search for a cast iron replacement might make sense if this part breaks again.
236	1/28/2021	Woodwor...	Action	N/A		Installed replacement hinge & reassembled. Good to go!


#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
237	2/5/2021	Woodwor...	Request	The bottom tire jumps off the wheel any time the saw powers on. It is probably just old and stretched out and needs to be replaced. Possibly some contact cement could keep it in place. A physical red tag still needs to be attached to the machine.		N/A
238	2/11/2021	Woodwor...	Action	Updating tag status to reflect fixed tire.		Remy changed the bottom tire. We have a couple spare tires, but are holding off on replacing the top tire until needed.
239	2/11/2021	Woodwor...	Action	Updating tag status to reflect fixed tire.		Remy changed the bottom tire. We have a couple spare tires, but are holding off on replacing the top tire until needed.
240	2/11/2021	Woodwor...		Updating tag status to reflect fixed tire.		Remy changed the bottom tire. We have a couple spare tires, but are holding off on replacing the top tire until needed.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
241	5/30/2021	Woodwor...	Request	Blade is off track		N/A
242	5/30/2021	Woodwor...	Request	Blade is off track		N/A
243	5/30/2021	Woodwor...		Blade off track		Mike Silverman put blade back on & gave me instruction. Still has tag with dull blade so putting back in yellow status.
244	6/24/2021	Woodwor...		Blade dull		Installed a blade Alexis found in the WW cabinet.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
245	8/14/2021	Woodwor...	Request	<p>At closing time, noticed burning rubber smell. Discovered that top (black rubber) tire had lost its stretch, and blade was running directly on wheel. Reinstalled black tire, failed again on restart. Decided it was stretched out, "end of service life".</p> <p>Found an orange urethane tire in the *Maintenance Room*, and installed that. Blade is now running fine. Front edge of urethane tire is sticking up in a few spots, my aged fingers were not strong enough to compress it in for full compliance. Will only need to be addressed if anyone wants to put a wide blade on there.</p>		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
246	8/14/2021	Woodwor...	Request	<p>At closing time, noticed burning rubber smell. Discovered that top (black rubber) tire had lost its stretch, and blade was running directly on wheel. Reinstalled black tire, failed again on restart. Decided it was stretched out, "end of service life".</p> <p>Found an orange urethane tire in the *Maintenance Room*, and installed that. Blade is now running fine. Front edge of urethane tire is sticking up in a few spots, my aged fingers were not strong enough to compress it in for full compliance. Will only need to be addressed if anyone wants to put a wide blade on there.</p>		N/A
247	11/12/2...	Woodwor...	Request	The top tire is coming out of the indent in the wheel, which is causing the blade to pull forward off of the wheel. The tire needs to be properly seated (should be easy)		N/A
248	11/14/2...	Woodwor...		tire on top wheel not seating properly		I got the tire back down into the track, which should remedy the tracking issue short-term, but the tire seems to be slightly wider than the track, so long term it needs to be trimmed down slightly to prevent it from popping back out.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
249	3/5/2022	Woodwor...	Request	bandsaw blade was wandering, now is bent		N/A
250	3/20/2022	Woodwor...	Request	Checked out on 3/20/22, blade is very dull		N/A
251	6/22/2022	Woodwor...	Action	Blade is dull		Ordered (4) new blades. They will arrive next week. Use current blade with caution.
252	10/19/2...	Woodwor...	Request	accidentally knocked the bandsaw off the wheel. saw needs put back both wheels.		
253	10/19/2...	Woodwor...	Action	Blade off wheels		Remouted blade,

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
Equipment:						
254	1/21/2021	Woodsho...	Action	Depth gauge was overtightened and had a vice-grip clamped on to it, damaging the aluminum scale.		Loosened the gauge stops so they can now be adjusted, and secured the gauge structure to the housing so it doesn't spin freely. Damage to scale is permanent.
255	1/21/2021	Woodsho...	Action	Depth gauge was overtightened and had a vice-grip clamped on to it, damaging the aluminum scale.		Loosened the gauge stops so they can now be adjusted, and secured the gauge structure to the housing so it doesn't spin freely. Damage to scale is permanent.
256	1/21/2021	Woodsho...		Depth gauge was overtightened and had a vice-grip clamped on to it, damaging the aluminum scale.		Loosened the gauge stops so they can now be adjusted, and secured the gauge structure to the housing so it doesn't spin freely. Damage to scale is permanent.
257	2/11/2021	Woodsho...	Action	Someone keeps clamping vice-grips to the depth stop. This is ruining the device.		Removed vice-grips and tightened the depth stop screw. Working under the assumption that the stops are working their way down the screw during use, causing issues, I've removed the stops and put them in the woodworking cabinet for now. If anyone sees someone putting vice-grips on the machine, STOP THEM.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
258	2/11/2021	Woodsho...	Action	Someone keeps clamping vice-grips to the depth stop. This is ruining the device.		Removed vice-grips and tightened the depth stop screw. Working under the assumption that the stops are working their way down the screw during use, causing issues, I've removed the stops and put them in the woodworking cabinet for now. If anyone sees someone putting vice-grips on the machine, STOP THEM.
259	2/11/2021	Woodsho...		Someone keeps clamping vice-grips to the depth stop. This is ruining the device.		Removed vice-grips and tightened the depth stop screw. Working under the assumption that the stops are working their way down the screw during use, causing issues, I've removed the stops and put them in the woodworking cabinet for now. If anyone sees someone putting vice-grips on the machine, STOP THEM.
260	7/17/2021	Woodsho...	Request	Something in the drive-train is loose and clattering. I suspect the pulley mount attached to the motor shaft, but haven't looked at it. Is probably just a loose set screw, but should be looked at ASAP to prevent damage to the shaft and pulley.		N/A
261	7/17/2021	Woodsho...	Request	Something in the drive-train is loose and clattering. I suspect the pulley mount attached to the motor shaft, but haven't looked at it. Is probably just a loose set screw, but should be looked at ASAP to prevent damage to the shaft and pulley.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
262	7/29/2021	Woodsho...		Chuck doesn't work right.		Fairly frequently the middle section comes loose from the bottom section, making it seem like the jaws don't work. Tightening those two parts back together fixes the problem. The top should spin relative to the middle in order to open/close the jaws.
263	8/26/2021	Woodsho...		Table difficult to adjust. Wearing out crank.		Cleaned and lubed column. Oiled crank handle. Adjusted rack retaining collar. Rack needs to be greased.
264	9/22/2021	Woodsho...	Request	Coil spring is broken or needs adjusting.		N/A
265	9/22/2021	Woodsho...	Request	Coil spring is broken or needs adjusting.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
266	9/23/2021	Woodsho...		return spring not working		Disassembled spring housing & found the spring to be in good condition. The roll pin is missing, so the spring housing spins freely and gravity pulls the quill to it's lowest position. Replacing the missing 2.5x10mm roll pin will fix the problem. Short term I've placed a hex wrench in the pin hole to keep things in position, and the press is usable.
267	9/30/2021	Woodsho...		Spring clip missing		Replaced the temporary toggle (hex wrench) with an actual spring pin. Everything should be back to normal.
268	1/27/2022	Woodsho...	Request	Shuts it self off. Trips the surge protector.		N/A
269	1/27/2022	Woodsho...		Shuts down before you could make a hole		Unplugged from the power strip and plugged it directly into the wall. It works now.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
270	6/9/2022	Woodsho...	Action	A member tried to tilt the drill press table 90 deg. but was unable to get it to turn		Removed the table from the pillar to investigate. The large middle/pivot bolt needs to be completely unscrewed while the table is being held up (thanks Helen!) and then the table pulls free. The small bolt with a welded nut on it is just a pull/push pin that drops into a hole drilled at the bottom of the circular face on the collar that mates with the table. Problem is that the pin never retracts from the hole, but gets hung up with about an inch still protruding. Tried tapping gently on the pin side to see if it could be knocked out towards the front of the table, but it would not. The weld on the nut will need to be ground off in order to remove the bolt and make a more thorough inspection of the table casting to determine the proper fix for the pin so it can be locked or retracted as needed. Pin looks like this https://www.fix.com/parts/drill-press/jet/fix10376124/locating-pin-10601401/ (did not verify model/part#) but the smooth shank does not retract into the hole in the table that would allow it to clear the lip of the locator hole in the collar. Shank looked slightly bent/damaged, but not terribly so. Might just need a cleanup pass on the lathe to true it up.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
271	6/11/2022	Woodsho...	Action	Could not rotate table		Pulled the table back off and got the stuck pin removed. Cleaned up some damage/oversized diameter on the lathe, and reinstalled. Pin can now be pulled out by hand with moderate force (not a screw despite having a hex head). After pin is removed, the large 15/16th bolt can be loosened with a socket and the table rotated.
Equipment:		J				
272	1/28/2021	Jointer	Action	Chip ramp completely clogged		Dug out all the chips & vacuumed
273	2/25/2021	Jointer	Action	Was making uneven, bowed edges.		The outfeed table was slightly too low. Adjusted to proper height.
274	7/22/2021	Jointer	Request	The 'off' button doesn't work, and a piece of the power switch has fallen off of the case. The emergency stop button still works to kill power to the machine.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
275	7/25/2021	Jointer		unaligned out feed reported by member		Properly Realigned out feed table, square fence and tested
276	9/23/2021	Jointer		clogged dust chute		removed dust boot and cleaned chute. I think it was Marty who suggested a magnetic attachment system a while back, which looks more and more worthwhile every time I do this.
277	9/23/2021	Jointer		Fence crank gears are stripped out, causing the crank to be inoperable, but its presence prevents smooth manual adjustment of the fence by hand.		Removed fence adjustment crank. Fence can now be pushed into position by hand and locked in place. Parts removed are in wood shop storage.
278	11/11/2...	Jointer		Dust ramp was completely clogged.		Unclogged dust ramp.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
279	12/7/2021	Jointer	Request	A nut holding the red guard over the blades seems to be missing. The guard sags down and hits the blades when in use. Metal on metal. Not good. I did not see any loose nuts laying around, as if it had fallen off nearby.		N/A
280	12/9/2021	Jointer		Guard floppy		Replaced retaining e-clip and raised the guard post so it wont drag
281	1/6/2022	Jointer		Clogged chip extraction chute		Cleared out chute. One of the four magnets on the new chute has fallen off, so that needs to be re-addressed. Still love the ease of use it provides.
282	3/20/2022	Jointer	Request	Checked out on 3/20/22, some minor chips on the blades in the cutter head		N/A


#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
283	4/22/2022	Jointer	Request	tables need to be waxed		N/A
284	5/19/2022	Jointer	Action	The outfeed table was set slightly high, which was leading to the work lifting off the infeed table for the last half of the cut, leaving a bowed profile to the bottom of the workpiece.		I lowered the table slightly and everything seems to be OK. When adjusting the outfeed table, a small known-to-be-square block of wood should be pulled 5mm toward the infeed table by one tooth on a hand-rotated cutter-head.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
285	5/21/2022	Jointer	Request	<p>Outfeed table spindle needs to be cleaned and lubricated; the wheel is difficult to adjust, which makes accurately adjusting it very difficult. The lack of a handle on the wheel exacerbates the difficulty, and makes it really easy to bang up your knuckles.</p> <p>It also explains why the outfeed table is sometimes set too high as noted in the current maintenance status. Having to fight to adjust the table effectively guarantees you won't be very accurate. A couple thousandths of an inch either way is enough to cause problems for your glue-ups.</p> <p>As an aside, an even easier method of adjusting an outfeed table is to run a board on its edge for about 5-6 inches, stop the machine, and then use the newly-made cut as a reference to set the height of the outfeed table since the cut will indicate the exact height the cutters reach with no room for mistakes. It's one of those tricks that leave you a bit dumbfounded after you learn about it as you wonder just what you were doing for all those years.</p>		

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
286	5/26/2022	Jointer	Request	<p>The tables have a sticky film on the front half, making it very hard to push work across the surface. Needs to be cleaned and waxed.</p> <p>The blade guard is also bent/worn to an extreme extent where it is starting to scrape against the surface of the table. Possibly people are resting their work on top of it, bending it downwards? It has been at a slight cant, but is now noticeably worse and poses a safety threat and may damage the table if not fixed.</p>		
287	6/22/2022	Jointer	Action	Cutting head guard scrapping the bed		Pulled the pin holding the assembly and found the spring was dismounted and lacking tension. Reset the spring and the guard no longer scrapes.
288	6/22/2022	Jointer	Action	Rust needs to be removed from table and waxed		Ordered everything needed to clean machined work surfaces. Waiting on arrival.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
289	6/23/2022	Jointer	Request	It was observed during class that the outfeed table was set too high, preventing the work piece from ever becoming flat. While trying to adjust it, the outfeed crank felt kind of stiff and crunchy as though the internal threads were stripped out. Got the table generally to the right height and locked in place, but something is really wrong, and turning the crank is going to do additional damage if it isn't already beyond saving. If a member has an endoscope we could borrow, that would be enlightening without having to disassemble the cast iron pieces.		
290	11/10/2...	Jointer	Request	A couple of the magnets that were added to the dust boot have fallen off. The only way it stays on now is upside down, which doesn't clear the chips well, leading to constant clogging. Short term, need new magnets. Long term, need new dust boot setup, as the OEM one never worked satisfactorily.		



#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
291	1/7/2023	Jointer	Action	The outfeed table crank was skipping teeth when trying to raise the table to the proper height. I found that there was an adjustable stop screw that was preventing the bed from raising far enough, and that the worm gear is stripped out from operators trying to continue turning the crank after the table had reached it's maximum height.		I adjusted the stop screw to allow for a larger range of motion, so the bed can now be raised to (and past) the proper height. I removed the crank's shaft and filed down some of the damage to the worm gear. It is still difficult to turn where the damaged portion is, but will work for the short term. Will submit a purchase request for the damaged part.
292	1/7/2023	Jointer	Request	Member was trying to run some cherry through the jointer, and it was bogging the machine. I had him slow down and take light cuts, but it was really just scorching the wood. Most inserts have had all 4 faces used and need to be replaced. Risk of kickback increases dramatically with dull knives.		
293	1/14/2023	Jointer	Request	Motor bogs down and stalls during jointing. Edge jointing hard maple stalled the motor almost immediately, even with a very shallow depth of cut (well under 1/16"). I was able to joint some walnut--which is much softer--as a test, but even then I could hear the motor struggling. Tagged as red just to be safe, though if you're taking light passes on something soft it's not completely unusable.		

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
Equipment:						
294	1/8/2021	CNC Router	Request	Cooling fan broken		N/A
295	1/8/2021	CNC Router	Action	Yes, the fan is broken. Receiving power but not spinning.		Submitted purchase request for new fan.
296	1/19/2021	CNC Router	Request	Bearings have being compromised by dust build up. Need new bearings and to revisit dust management on the machine.		N/A
297	2/5/2021	CNC Router	Action	The old, but still-functional X axis bearings STILL NEED to be greased before running. The new Y axis bearings need grease fittings installed and properly packed with grease. The rails had impacted grit on them, exacerbating the inability of the bearings to move smoothly.		Replaced bearings on the Y axis and scraped the rails clean of grit. I crammed in as much grease as I could by removing the end bolt, but it was mostly ineffective without the proper fittings and just squeezed back out the hole.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
298	2/11/2021	CNC Router	Action	Dust collection was not working. Dust collection now works, but there is a tear in the back bottom of the bag, so the dust is now being blown back into the shop. I couldn't find tape to make a temporary patch, so I put on a trash bag. It doesn't look like it'll hold long, so can someone please bring in some tape for the heavy-duty bag?		Pulled the hanging hose off of the ceiling and cleared out a complete blockage from the top of the arch. This is probably a recurring clog, so we might want to investigate a third iteration of the articulating hose that uses straight pipe for long and/or flat traverses.
299	3/8/2021	CNC Router	Action	Fan for controller 1 was down.		Replaced with new fan.
300	4/26/2021	CNC Router	Request	Power Supply Tripped overnight: Needs a diagnostic check		N/A
301	4/27/2021	CNC Router	Action	Power supply was tripped		Reset supply we're going to need a new one because the battery is dead and will no longer charge. No longer uninterruptible. Will place maintenance purchase request

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
302	5/6/2021	CNC Router	Request	<p>Within the next week, a member wants to execute a CNC job with a 5'x10' sheet of material. In order to permit this, we'll need to put more MDF on the table. (It's been about time to renew the table top anyway.)</p> <p>We'll need one sheet of 1/4" MDF 4x8, and two sheets of 3/4" MDF 4x8.</p>		N/A
303	9/13/2021	CNC Router		The spindle would not turn on.		Makes sure everything is plugged in. Not sure if it's a physical problem or a software problem. Maybe something to do a recent update? Also doesn't seem to have a tag system on the machine either.
304	2/24/2022	CNC Router	Request	Applied new sacrificial layer of 3/4" MDF to table top.		N/A
305	3/20/2022	CNC Router	Request	Blue dust cover belt on the Z-axis gantry is torn from the top and bottom of the rig; needs to be replaced. Use of the machine without repair risks the belt catching in the motor		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
306	3/24/2022	CNC Router		Blue dust cover needs to be installed on the Z-axis motor.		Blue dust cover installed on Z-axis motor
307	4/12/2022	CNC Router		z-axis belt was worn out		replaced by Svi

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
308	6/20/2022	CNC Router	Request	<p>The dust collector on the CNC router suffered yet another stealth bag failure on Saturday, covering that end of the workshop with sawdust. (Happily plywood dust this time, rather than MDF or epoxy dust.) I was able to apply a pressure-bandage 2x4 to staunch the leak and finish the project.</p> <p>In my lights, this model of Jet dust collector has several fundamental design flaws, the most damning of which is that it is impossible to remove even a half-full collection bag without damaging the bag itself. The second-greatest flaw is the hard-to-handle spring steel circle that holds the bag into the bottom of the vortex shell. Thirdmost is the continuing dust leak around the blower housing.</p> <p>If \$\$ and availability were not constraints , I'd recommend replacing it with a Laguna Cflow collector. The Laguna has a singular design advantage: a clamping lever system that pulls the wheeled dust container UP into firm contact with its lid. When the container is full, you release the arm, and wheel the container away to the dumpster. Unfortunately , it costs</p>	 	

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
				<p>\$2K and is backordered until at least August.</p> <p>In our perhaps-more-constrained environment, I believe that a Jet Vortex dust collector can be rebuilt into a team-built unit resembling the Laguna in form, using one of our splendid gray rolling trash cans as a dust receptacle.</p> <p>Thoughts and discussion are invited.</p>		
309	6/22/2022	CNC Router	Action	Dust bag tore open due to overfilling		New bag ordered. Will install when it arrives
310	6/24/2022	CNC Router	Action	Collection bag ripped and dust collector had low suction.		Jeff Greene install the new collection bag on the router and cleaned the filter. Suction has improved greatly now that the filter is cleaned and there isnt a hole in the bag. CNC users should be emptying the bag if it is half full, but ideally after each use.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
311	7/27/2022	CNC Router	Request	<p>Magnetic dust boot attachment doesn't attach to its mount securely and can come loose during operation, likely damaging your workpiece--or even the machine itself, if during a rapid movement--as a result.</p> <p>The plastic on top of the boot looks a bit mangled, so I'm guessing it got knocked loose at some point in the past and was subsequently caught against the bit. I'd <i>strongly</i> recommend against using the dust boot at this time.</p>		
312	8/16/2022	CNC Router	Action	Spindle stopped spinning.		The Spindle is powered by it's own receptacle on the wall the cord is a little short and is strung up, it's own weight worked the receptacle loose.
313	9/14/2022	CNC Router	Request	Noticed a squeak on the x axis during class tonight. Need to finish the grease job. Purchase request put in.		

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
314	10/28/2...	CNC Router	Action	<p>Greased up every bearing except the bottom left z. Couldn't get the screw out. Z still has a noise boo</p> <p>Removed buried screw from spoil board and started setting up a spoilboard resurface to see how to home etc.</p>		<p>Greased up every bearing except the bottom left z. Couldn't get the screw out. Z still has a noise boo</p> <p>Removed buried screw from spoil board and started setting up a spoilboard resurface to see how to home etc.</p>
315	11/10/2...	CNC Router	Action	<p>Observed that the router's dust collector was producing an ABSURD of blow-by dust. (Dust leaking out at the rim where the filter canister rests on the base.)</p>		<p>Took the filter-top off the base, and observed that the OEM circle of foam that seals that interface was crushed down to basically nothing.</p> <p>Installed a circle of foam "backer rod" into that gap, hoping that this would fill in the gap somewhat. Re-attached the filter top, and observed some springiness under the canister. (A good sign!) Had to press the canister down a bit in order for the clamping screws to seat properly.</p> <p>Used the dust collector to clean up its own dust. :)</p> <p>This stop-gap solution can probably be made better, maybe with some denser foam.</p>
316	11/13/2...	CNC Router	Action	<p>Surfaced spoilboard.</p>		<p>Surfaced spoil board</p>

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
317	11/13/2...	CNC Router	Request	<p>bolt fell out of upright support for cnc dust collector. The nut and washer fell into the bag and was lost.</p> <p>Need to get a new nut I think it's 1/4" bolt and washer. ensure all bolts are tightened.</p> <p>Do we apply loctite?</p>		
318	11/15/2...	CNC Router	Action	Missing nut on support for filter holder.		Replaced bolt. Tightened other nuts.
319	11/15/2...	CNC Router	Request	Holes on hose between blower and vortex. Moar tape???		

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
320	11/29/2...	CNC Router	Action	Squeeaky		<p>Two squeaks were. The rack and pinion on the x axis was squeezing where the two rack pieces come together. I used some dry lube on the rack and that cleared it up.</p> <p>Second I found the z squeak to be the bottom thrust bearing/bushing/seat thingy. A dab of grease quieted it right up</p> <p>Finally enabled the z limit switch as it was disabled by someone.</p> <p>Didn't find why refallhome still isn't doing a.</p>
321	12/1/2022	CNC Router	Action	Z button on medallion very difficult to get to register presses		Desoldered the faulty button and moved the 'A' button to 'z' position. Also removed a second faulty button. X y z buttons now all work. Jeff is going to bring in two spare buttons to replace the removed ones.
322	12/26/2...	CNC Router	Action	Leaks in tube of dust collector. Looks like this has been an ongoing issue since there are many previous tape repairs!		Applied tape to close leaks.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
323	1/6/2023	CNC Router	Action	After using the router a member told me that the gantry motor's went out of sync causing some incorrect shaking and stuttering.		After taking a break we followed steps from Jeff(power down, manually square up gantry, power on, ref all home, and then do test movements) , and it seems to be working again.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
324	1/6/2023	CNC Router	Request	<p>From Michael:</p> <p>Hey Jeff I'm hoping you can help with a cnc router issue. Someone's job had just completed and when the router was going back the the origin point the gantry motors weren't synced up causing it to shake. Soon after there was a grinding noise coming from the left motor. As of this moment it seems to be working fine again but I have no clue as to what could have happened.</p> <p>After talking to Drew:</p> <p>As stated above it was returning to origin after the job and the gantry started making a grinding noise. Drew immediately hit estop. Gantry didn't look skewed from eying it. I don't recall if he tried to jog in this moment or not. Would have to get a recap from him.</p> <p>Noteworthy was when he turned off power the gantry moved some releasing built up tension. He referenced home and it corrected for. Non trivial amount of skew. He said everything was running fine after that. And it was 5 hours later when I talked to him.</p>		

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
				<p>Drew knew to keep an eye out for anything suspicious and he seemed. Conscientious operator of the equipment.</p> <p>In hindsight Svi's determination of the problem aligns with the symptoms observed but I was thinking more around skipped steps and not the binding on the legs so I would like to know how that became apparent?</p> <p>Was there another event after the mixer where it got hung up again?</p>		
325	1/18/2023	CNC Router	Action	Dust collector hose worn out and leaking.		Replaced hose on router's dust collector, using donated hose. (There is now also another length of this 5" hose for if/when this one wears out. It's in with our stash of dust hose stuff.)
Equipment:		V				
326	1/20/2021	Wood Lathe	Request	Broken drive piece		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
327	3/18/2021	Wood Lathe	Action	Broken Drive Piece		Replaced part
328	3/21/2021	Wood Lathe	Request	<p>Secondary e-stop is broken. The primary e-stop mounted to the control panel still works, however. I've wired the secondary circuit together temporarily, so that the lathe is usable, but it only has one e-stop currently. Needs a replacement safety paddle, available here:</p> <p>https://www.amazon.com/POWERTEC-71390-Safety-Paddle-Switch/dp/B07SGDX646/ref=sr_1_42?dchild=1&keywords=stop+paddle+switch&qid=1616351795&s=industrial&sr=1-42</p> <p>Submitting a maintenance purchase request as well.</p>		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
329	3/22/2021	Wood Lathe	Request	<p>Our custom-printed bushing in the tailstock has worn out. A new bushing needs to be printed and replaced in the tailstock for it to be usable again. I believe Cord has the file or knows where it is.</p> <p>The tailstock should also be lubricated when replacing it, with graphite or a similar dry lubricant.</p>		N/A
330	3/28/2021	Wood Lathe	Action	E-stop stopped working		Replaced switch. Tail stock bushing still should still be looked at before green-lighting.
331	4/1/2021	Wood Lathe	Action	<p>Tail stock bushing is bad again. It probably blew out more quickly this time because the quill is seizing. Forcing a crank that isn't moving smoothly will DESTROY machines. Remember that screws give mechanical advantage, so a small resistance in the crank is a very large resistance in the mechanics themselves. I think at this point we need a new tail stock and quill screw, though we may be able to build up the screw with weld and machine it down.</p>		Red tagged the machine.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
332	4/17/2021	Wood Lathe	Request	Bed (and probably bottom of banjo) is horribly scratched. Damage looks fresh and continuing. Immediate attention needed to prevent more damage. (machine has been in use since it was red-tagged for the tailstock issue, so something more drastic than a red piece of paper is needed, or an immediate fix). A machinists stone is usually used to clean up burrs like this, but I don't think we have one. Andrew Katon might? I have a can of paste wax in the wood shop cabinet to lubricate the parts with once the pieces are flat again.		N/A
333	4/22/2021	Wood Lathe	Action	Banjo and bed were grinding each other away.		I pseudo lapped them back to flat-ish with a diamond sharpening stone and waxed both surfaces. Preventative maintenance needs to be set up to prevent this damage from getting worse. I also cleaned up some sharp edges on the tool rest to make it easier to move cutting tools laterally. There are some pretty bad angular dings, which must be from really hard catches with a cutting tool with a square shank cocked at an angle. Leaving at yellow until the tail stock has a metal bushing.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
334	4/22/2021	Wood Lathe	Action	Tail stock cam handle was loose, causing the retaining bolt's threads to be damaged, preventing the handle from being tightened back into place.		Was able to find the proper size bolt (3/8-16) in the way-back and replaced the bad one.
335	4/22/2021	Wood Lathe	Action	Banjo and bed were grinding each other away.		I pseudo lapped them back to flat-ish with a diamond sharpening stone and waxed both surfaces. Preventative maintenance needs to be set up to prevent this damage from getting worse. I also cleaned up some sharp edges on the tool rest to make it easier to move cutting tools laterally. There are some pretty bad angular dings, which must be from really hard catches with a cutting tool with a square shank cocked at an angle. Leaving at yellow until the tail stock has a metal bushing.
336	4/22/2021	Wood Lathe		Tail stock cam handle was loose, causing the retaining bolt's threads to be damaged, preventing the handle from being tightened back into place.		Was able to find the proper size bolt (3/8-16) in the way-back and replaced the bad one.
337	9/9/2021	Wood Lathe		Tail stock cam-lock bolt was bent in half		Tried to replace the bolt, but bought the wrong one. Was able to bend the old one back, grind off the ruined portion of thread, and reinstall I believe the correct bolt is 3/8 x 16 x 2" (10mm x 1.5 was wrong) . Tail stock bushing still needs replaced with a metal one, so leaving at yellow status.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
338	10/14/2...	Wood Lathe		The 3D print for the quill is messed up again		None
339	10/15/2...	Wood Lathe		Quill thrust not operational		Thrust bearing ordered arriving Sunday 10/17 to Carl Bajandas
340	10/18/2...	Wood Lathe		Thrust bearing installed 25mm is 42mm od 11mm thick		Thrust bearing installed
341	10/22/2...	Wood Lathe		Tail stock temporary bushing was worn away.		Svi printed a new bushing, and it appears that the fitment is still good (no additional wear in tail stock cadting). Looking over the screw with Carl it seems like we can weld one half of the thrust bearing onto the screw as a new shoulder to replace the worn away portion, and extend the crank shaft with some steel rod to make up for the space needed by the thrust bearing. A non-temporary bushing made of nylon or other high density plastic could then be installed just to support the crankshaft's concentricity in the bore.


#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
342	10/28/2...	Wood Lathe		Tail stock		Carl welded on half of a bearing as a new shoulder for the screw, and shaft extension for the crank. I turned down the shaft to 22mm, so the whole thing is ready to be reassembled once a thrust bearing is installed (Carl, take us home!)
343	11/9/2021	Wood Lathe		Finishing the tail stock saga		Tail stock has a thrust bearing installed, and the tail stock is all back together again! An eye should be kept on the 3-d plastic bushing that is keeping the crank shaft in the center of the bore, preventing wobble while cranking, but the bearing should be pushing solidly against original cast-iron.
344	3/20/2022	Wood Lathe	Request	Checked out on 3/20/22, fully operational		N/A
Equipment:		E				
345	2/2/2021	Belt and D...	Request	Disc abrasive needs to be replaced		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
346	2/2/2021	Belt and D...	Request	Disc abrasive needs to be replaced		N/A
347	2/3/2021	Belt and D...	Action	Disc abrasive needed to be replaced		Replaced disc abrasive
348	2/25/2021	Belt and D...	Request	Disc abrasive is completely clogged and needs to be changed.		N/A
349	3/17/2021	Belt and D...	Action	Disc needed swapped		Changed out bad disc with new one. Also retracked the belt
350	3/25/2021	Belt and D...	Request	Needs new disc abrasive (old one fell off). Not really sure what "pressure activated adhesive" takes to adhere well, but ... looks like we need more pressure!		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
351	3/25/2021	Belt and D...	Request	Needs new disc abrasive (old one fell off). Not really sure what "pressure activated adhesive" takes to adhere well, but ... looks like we need more pressure!		N/A
352	4/9/2021	Belt and D...	Request	Some sort of gummy material is embedded in the belt. Wasn't sawdust or pitch, but some sort of polymer. Spent a long time trying to scrape it out, but it isn't going to be recoverable. New belt needs to be installed. Still needs a disc too.		N/A
353	5/12/2021	Belt and D...	Request	Actually for Spindle sander but didn't see on drop down. Spindle sander seems to be set up wrong. Getting power but not oscillating at all.		N/A
354	8/8/2021	Belt and D...	Request	The shop vac in the wood shop no longer has the attachment to link the hose to the orbital sander. Luckily Marty let me borrow his hose. Otherwise I would have been spraying sawdust everywhere.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
355	9/23/2021	Belt and D...		Belt tracking was off-track to the left, nearly into the housing.		Adjusted the tracking to middle.
356	10/7/2021	Belt and D...	Request	The belt and disc need some love or replaced entirely		N/A
357	10/7/2021	Belt and D...	Request	Disc sander is not usable. Need a new disc. Belt sander is still ok.		N/A
358	10/8/2021	Belt and D...		Worn out disc. Sand paper had embedded sawdust that was not properly cleaned out with the eraser & got fused in place. Possibly from sanding varnished wood?		Found a 'new old stock' sanding disc and installed. I think a previous disc from this same package had glue that didn't stick super well and came off during the first day's use, so I wouldn't be surprised if that happened again.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
359	12/23/2...	Belt and D...	Request	Disc abrasive is totally shot. I'm not in the shop often enough to know who uses the disc (which is the less-often used side of the machine), but I get the feeling that we could drastically reduce the deterioration of the abrasive by training a single heavy user of that side in the proper usage of the rubber abrasive cleaning stick.		N/A
360	1/5/2022	Belt and D...		Belt needed replaced		Replaced and tracked belt. Disc still needs replaced to be operational
361	3/20/2022	Belt and D...	Request	Checked on 3/20/22; Disc replaced		N/A
362	6/4/2022	Belt and D...	Request	Disc abrasive is clogged/burned needs to be changed.		

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
363	6/17/2022	Belt and D...	Action	Disc abrasive loaded, and belt abrasive grinding its way into right side of housing.		Replaced disc from back room inventory (thanks to Derek for the elbow grease) and re-centered the belt abrasive.
Equipment:						
364	4/9/2021	Miter Saw	Request	The bolt/hinge for the miter angle that holds the two halves of the table together is worked VERY loose, and needs to be tightened ASAP before the top pulls off while powered. I meant to do that before leaving, but got side-tracked. Whoever comes in first in the morning should prioritize that safety risk.		N/A
365	4/10/2021	Miter Saw	Action	Miter table was loosening from the base of the saw		unmounted the saw to find the center bolt. tightened and remounted. Also cleaned out the sawdust

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
366	5/7/2021	Miter Saw	Action	<p>The rotation of the table was sticking, so I dismantled and cleaned out the debris from the track. After reassembling, the table now moves, but is grinding horribly. It will wear out in VERY short order unless addressed. Dry lube might do the trick? Anyone disassembling, be aware that there are four stainless steel sliders on the base that are a pain to keep in place while reinstalling the table. Two people is helpful. Must pull the miter lock trigger to reinstall the table. The bottom of the head and the stainless sliders might need to be polished with 1000 grit sandpaper before being lubricated. This problem probably occurred due to excessive debris building up to the sides and beneath the table, which pushed grit into the mating surfaces of that joint, causing excessive wear.</p> <p>Also, both of the sliding wings of the fence are bent, and no longer move freely in their tracks. The red camlocks are currently removed and in the WW cabinet. They should be reinstalled to prevent the wings from falling out (unlikely but possible). This was likely caused by something</p>		See above.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
				getting caught and pulled violently by the blade.		
367	7/9/2021	Miter Saw	Request	Blade is pinching dangerously when cutting long stock that extends to the left. The kerf collapses at the end of the cut because the left wing of the table is further forward than the fence of the saw itself. The saw needs to be removed from the table, and the bolt holes in the table routed into slots, allowing for more flexible forward-to-backward positioning. A trim router is needed in order to get into the tight space next to side of the table wings. (or possibly a coping saw)		N/A
368	7/17/2021	Miter Saw		Fence misalignment with the table wings was causing pinching of blade when kerf would collapse during wide cuts.		Slotted the bolt holes in the table to allow front-to-back movement of the saw when mounting to the table. The saw should no longer bind. Did not have time to check the interference between the back of the saw and the left side of the hood. 90 degree stop pin is still missing.
369	10/21/2...	Miter Saw	Request	Installed new "extension wings", and cut matching notches into plywood fence.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
370	11/4/2021	Miter Saw		Missing knob on bevel stop rod		Installed knob that got shipped to the shop. Thanks Remy!
371	11/11/2...	Miter Saw		Saw was struggling during cuts. Blade was found to be caked with debris.		Replaced the blade and put the old blade in the storage box for cleaning.
372	3/12/2022	Miter Saw	Request	Bevel pivot is grinding badly. Needs to be disassembled and greased. Miter hinge is also floppy and needs attention. Really should be red tagged until fixed, but it is the only chop saw we have.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
373	3/12/2022	Miter Saw		Blade was bent, and appears to maybe have been pushed off of one of the wheels, with obvious metal-on-metal wedging? Also noticed that there was some melting on the upper wheel's tire that may indicate that the top wheel got jammed while the band spun across the top of it. Not sure if that was related to this event or not.		Replaced blade, but while adjusting the upper guides, found that the guide block was loose. One of the two set screws (the dog-nosed one on top) is too stripped for the appropriate hex wrench, and the associated lock nut is missing. The OEM handle on the side used for locking the guide block in place horizontally is missing, and while a set screw was used in place of a handle, it does not allow for the appropriate user adjustment, is quite hidden, and this is what led to the top set screw to be mis-used & abused while trying to use the wrong screw to lock the block in place. The missing three pieces have had maintenance purchase requests put in.
374	3/21/2022	Miter Saw	Request	Reposting details from a previous status: Bevel pivot is grinding badly. Needs to be disassembled and greased. Miter hinge is also floppy and needs to be tightened (rotational sliders beneath table probably need to be cleaned out too). Really should be red tagged until fixed, but it is the only chop saw we have.		N/A
375	3/21/2022	Miter Saw	Request	3/21/22: This saw's bevel and miter joints are loose and need some maintenance performed to make accurate cuts		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
376	4/24/2022	Miter Saw	Request	The saw was yellow tagged and the blade was reported as "cracked" (should have been red-tagged). I can't find a crack in the blade, but replaced it anyway and cleaned the old blade.		N/A
377	6/11/2022	Miter Saw	Action	Loose table		Tightened center bolt
378	10/6/2022	Miter Saw	Request	<p>The saw surface is not level with the surrounding plywood supports. If your workpiece spans both supports to either side of the saw, it will be suspended above the surface, creating a *serious* and guaranteed kickback risk once the workpiece is cut and it then drops. Unless the material is thin enough you're able to deflect it when your hold it against the saw, it will kickback and should be considered a safety issue. The problem is more noticeable with thicker material.</p> <p>The easiest solution is to use some shim stock to raise the miter saw so that it's flush with the plywood.</p>		

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
379	10/23/2...	Miter Saw	Action	Tom reported that the miter saw sat lower than the outfeed tables, causing workpieces to pinch on the blade when completing a cut. Head of saw also very wobbly. Extreme sawdust buildup under saw starting to cause wear on sliders under miter table.		I cut a metal shim to put under the left side of the saw. The right side seemed to be OK. The saw is now very slightly higher than the outfeed table on the left. I did not verify the length of the whole table. Tightened the miter pivot to reduce saw wobble. Probably need some plastic washers to reduce friction, and a new nylon/locker nut, as it immediately started backing off again when moving the miter portion back and forth. I used the hand router to cut out a big section of the table under the saw, which should let sawdust in the throat fall through instead of getting clogged between the saw and the table. There is an air scoop ear-marked to go under that hole. Just need a Y, hose, and some hose clamps before that can be installed.
Equipment:		F				
380	1/30/2021	Resaw Ban...	Action	Blade needed to be changed		Blade changed, tension set, bearings adjusted
381	1/30/2021	Resaw Ban...	Action	There was a pattern of the blade drifting significantly, even with a fresh blade.		Replaced both upper and lower tires. Both needed substantial heat (under 140), lots of clamps, and a dull flat tool for leverage to be able to squeeze them into place before the heat was lost. Extra hands help.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
382	4/20/2021	Resaw Ban...	Request	miter slot is out of parallel with the kerf of the blade. Need to adjust the table position via the bolts, possibly widening the bolt holes to allow more adjustment than is currently possible. Fence is probably also not parallel to the miter slot.		N/A
383	5/27/2021	Resaw Ban...	Request	Upon releasing the blade tension lever, the blade tension screw (inside the spring) popped out of the hole in the housing, and wouldn't go back in. It is bent (known issue) and should be replaced. Releasing tension at the tension knob allowed the screw to go back into place. The guide wheel assembly is installed off-kilter, so you cannot fully disengage the right guide wheel from the blade. This is bad, and needs to be addressed fairly quickly. The bottom guide wheels still cannot be locked in place.		N/A
384	6/17/2021	Resaw Ban...	Request	I cracked the blade :(N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
385	6/17/2021	Resaw Ban...		Cracked blade		There was a stress fracture at the weld, and Mike stopped using the machine when it started sounding weird, avoiding a complete breakage. Great situational awareness! It is possible the blade tension was improperly set, leading to accelerated fatigue. I pulled off the old blade and put on an old, semi-bent blade from the way-back that will hopefully be able to make ugly cuts until we get a new blade in.
386	6/22/2021	Resaw Ban...		Heavily damaged guide bearing, bent, shredded cover. The drive belt was also off-track by one tooth, and rubbing against the wheel, making a squealing sound.		Replaced bearing (had to combine two bearings to get one completely shielded one) and got the belt re-aligned. Leaving at yellow status due to other lingering issues.
387	7/8/2021	Resaw Ban...		Bottom guides did not work		Replaced guide shafts with correct part, and they can now be adjusted the proper distance from the blade and locked in place using the thumb screws. Leaving at yellow because the blade is covered in a slightly goeey substance (possibly bondo?).
388	7/22/2021	Resaw Ban...	Request	Upper guide rail need to be adjusted where it connects to the frame. It is crooked, and you can't disengage the right bearing, nor engage the left bearing.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
389	9/23/2021	Resaw Ban...		Upper thrust bearing had broken open and was seized.		Replaced upper thrust bearing with a new one. We're down to two spares.
390	11/10/2...	Resaw Ban...	Request	Blade drifts when trying to make a straight cut		N/A
391	11/11/2...	Resaw Ban...		Blade gunked up and drifting		Replaced new blade with backup from storage. Re-aligned fence with miter slot in the table. Cuts straight as an arrow.
392	11/18/2...	Resaw Ban...	Request	Fence loose		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
393	11/30/2...	Resaw Ban...	Request	The blade guard assembly is out-of-plumb, so one of the guide bearings cannot get close enough to the blade at the guard's lowest height. The four bolts holding the top of the assembly to the saw housing need to be loosened, and the whole thing brought into line with the blade so that both guide bearings can contact the blade when at it's lowest height.		N/A
394	12/23/2...	Resaw Ban...		Bolt from the guide block found lying on the table		Reinstalled missing bolt
395	12/23/2...	Resaw Ban...		Loose fence		Added some temporary spacers while waiting for oem parts to be ordered
396	1/18/2022	Resaw Ban...	Request	Circular plate around blade is all gnarly and is not flush with table. Looks like it got caught on something that pulled it in. Would not be able to push material over that for cutting. Not safe.		N/A


#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
397	1/20/2022	Resaw Ban...	Request	Verified that the throat plate was beyond salvaging. The spares we have in the back dont fit without grinding a relief in the edge. We dont have the proper aluminum wheel to do so, nor a burr bit for the grinders in the jewelry area. I'll take one home with me to fix, but thats a week turnaround. Probably faster to order another and fix the spares for next time. The blade is not only bent irreparably from the impact, but is also gunked up with the same gooey crap as before, and was already ruined when it crashed (was probably drifting badly due to the goop, which contributed to the crash). The bottom guides were completely disengaged, so there was really nothing keeping the blade stable laterally at the throat. Multiple operational failures here.		N/A
398	1/20/2022	Resaw Ban...		Throat plate and blade		Got a throat plate installed, and replaced the blade with a used one from the back.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
399	3/12/2022	Resaw Ban...		Profoundly bend blade		Observed on Friday that someone replaced the ravaged blade.
400	3/20/2022	Resaw Ban...	Request	Checked out on 3/20/22, fully operational		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
401	3/21/2022	Resaw Ban...	Request	3/21/22 (Reposting Cord's original maintenance report to the correct machine) "Replaced blade, but while adjusting the upper guides, found that the guide block was loose. One of the two set screws (the dog-nosed one on top) is too stripped for the appropriate hex wrench, and the associated lock nut is missing. The OEM handle on the side used for locking the guide block in place horizontally is missing, and while a set screw was used in place of a handle, it does not allow for the appropriate user adjustment, is quite hidden, and this is what led to the top set screw to be mis-used & abused while trying to use the wrong screw to lock the block in place. The missing three pieces have had maintenance purchase requests put in."		N/A
402	4/21/2022	Resaw Ban...		upper guide block missing parts		Installed screws that got shipped in. Also adjusted the blade guard rail so that it lifts the guide block more parallel with the blade. Both guide bearings can now reach the blade. The lower guides were badly out of adjustment, with the guide bearings riding on the side of the teeth. This dulls the blade extremely quickly and ruins the tooth set.


#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
403	5/26/2022	Resaw Ban...	Action	Knob for right bottom blade guide was disconnected		Reattached and tightened the set screw (2mm allen)
404	5/26/2022	Resaw Ban...	Request	Needs new blade and a replacement guide bearing lock handle. Member was having issues with the blade pushing off the side of the top thrust bearing. This caused the blade to catch in the guides and get bent. While attempting to adjust the angle of the guide block to center the thrust bearing on the blade, the handle that locks the blade guides in place got over-torqued and the bolt sheared off. This handle (just recently replaced) was never intended to hold the guide block at anything but the angle defined by the flat on the bar it locks to, so this torquing was not effective, and probably damaged the flat on the bar under the end of the handle's bolt. The rotation of the bar can be adjusted by loosening the large nut on the back and then adjusting to the desired angle, which can be used to set the position of the thrust bearing laterally with respect to the blade.		

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
405	6/22/2022	Resaw Ban...	Action	Fence locking handled needed to be replaced (this already happened). Blade was pushing against thrust bearing		ID'd that the new handle has been installed. Made a test cut and was able to make a clean straight cut without issue. Switching to green.
406	6/23/2022	Resaw Ban...	Action	Top guide block was misadjusted to where the left guide bearing could not reach the blade at it's furthest travel.		Tried to unbolt and adjust the shaft on which the guide block can be moved forward and backward, but while doing so noticed that the block it attaches to was floppy where it attached to the armature. Was able to flop the guides to the left, positioning the side guides equally from the blade, then tightened down two hex screws, locking the block in place. Handle is still missing, and bottom guides need a shim to be able to be properly set (same problem, where one guide bearing reaches the blade but the other does not)
407	11/10/2...	Resaw Ban...	Request	Blade is pulling hard to the left. Cannot cut a straight line even using the resaw bar. Blade needs to be replaced. I plan on doing this before the class tonight.		
408	11/10/2...	Resaw Ban...	Action	Excessive blade drift		Replaced blade. We're down to one resaw blade. Not ordering a new one until the next one is installed, since we seem to order in pairs to save on shipping.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
409	11/10/2...	Resaw Ban...	Action	Saw would not turn on		Opened the switch box and the over-temp protection seems to be the culprit. The blue button should pop in and out, but has lost its springing. Turning the pot-like screw in the blue button from left to right position seems to have overridden the circuit, but I don't know why. Recommend immediate replacement. Will have to open back up to get part #. Switch works normally but may not have active thermal protection.
410	11/10/2...	Resaw Ban...	Action	Saw was making a loud squealing noise when the lower wheel was in motion.		The drive belt from the motor to the drive wheel had jumped a tooth at the wheel, and was rubbing against the wheel casting. This has happened before in the past, and the belt seems to now be slightly tapered instead of cylindrical. Not sure if this taper is contributing to it's jumping out of it's track or not. Keep an eye and ear out for this repeating issue.
411	12/29/2...	Resaw Ban...	Action	Fence slipping laterally even when clamped		Added a new spacer/pad made of wood to the face of the cam lock while we wait for a new plastic pad from the manufacturer.
Equipment:		C				

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
412	3/8/2021	Downdraft...	Request	Cord's Note: Sanding table needs to be red tagged. A piece fell off the other day (i think Lauren put it back on ?) But I think a bearing also went completely bad. Using it at this point will ruin the motor.		N/A
413	3/8/2021	Downdraft...	Request	Cord's Note: Sanding table needs to be red tagged. A piece fell off the other day (i think Lauren put it back on ?) But I think a bearing also went completely bad. Using it at this point will ruin the motor.		N/A
414	4/29/2021	Downdraft...	Action	Horribly broken noises when running		Welded a motor bracket back onto the motor, and reassembled. The fan cage is misshapen, and tends to scrape the sheet metal housing. This may cause some rythmic chirping/grinding sound with each rotation, but is benign. Could potentially shorten one of the motor standoffs (left-most when door is completely open) to remedy this noise. Marty is going to finish bundling the wiring back together tomorrow.
415	4/10/2022	Downdraft...		Won't turn on. Troubleshooting: power button tab broke off in one of the motor terminals. Needs a new button.		Searched maint room for replacement button but found none.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
416	4/20/2022	Downdraft...		Switch tab was broken. Also noticed wiring running to broken tab was a little shorter than it should be and would put tension on the switch tab when the side panel was opened, which most likely led to it breaking.		Ordered and replaced switch. Provided more slack for the wire to ease tension. Once running I noticed that the pull from the motor was minimal, and also, it seems the housing of the blower motor is slightly bent in, which is causing the blades to rub against it in areas. These issues have to be addressed before it can be usable.
417	6/22/2022	Downdraft...	Action	Motor was rubbing against its housing. Poor suction		<p>Mounting bolts for the motor had worked themselves loose. I tightened them. One of 4 supports has broken but the 3 remaining are sufficient to hold the motor in place. Blades turn smoothly now. Will look at unmounting the housing to weld the broken support in the future.</p> <p>Ordered two new sets of filters but for now I have cleaned out the filters and suction has greatly improved.</p>
418	1/7/2023	Downdraft...	Request	The blower motor has four motor mounts. Three of them are broken. The squirrel cage is rubbing on the blower housing making a ruckus. I need to determine if attempting to weld the brackets is in my capacity.		
419	1/7/2023	Downdraft...	Action	motor mounts broken		welded on new motor mounts with angle iron gussets. but need new vibration damping feet before reinstalling it.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
Equipment:						
420	2/11/2021	Drum San...	Action	Table conveyor belt is worn out & needs to be replaced with new belt from the wood shop cabinet. It looks like someone turned on the drum, lowered the machine to the table, and let the table run underneath it, stripping all the abrasive from the table. The drum was in contact with the table when found. The abrasive strip is also starting to tear (but is the responsibility of the user, not the shop, right?)		Raised the drum away from the table. Did not replace any abrasives.
421	2/25/2021	Drum San...	Action	conveyor belt worn out		replaced the conveyor. had to fight to get it to track straight. keep an eye on it.
422	9/27/2021	Drum San...	Request	Store is out of replacement 16" pre-cut sandpaper wrap for jet 16-32 https://www.amazon.com/dp/B0000225PL/ref=cm_sw_em_r_mt_dp_P61GYNHBKZ6MHC26JKJA?_encoding=UTF8&psc=1		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
423	3/20/2022	Drum San...	Request	Some buildup on the right side of the sandpaper		N/A
424	4/21/2022	Drum San...	Request	The drum arm is tilted with relation to the bed, leading to a ramped surfaces when sanding. It should be fairly easy to shim under the "free" end of the bed to bring the table into parallel with the drum.		N/A
425	5/19/2022	Drum San...	Request	The abrasive table is damaged and worn out. This leads to material slipping on the table instead of being pulled past the drum. Ruined a new strip of sandpaper during class when a piece stalled out under the drum and the pitchy wood smeared itself onto the drum. Table abrasive needs to be replaced (we have some in the back) and the table needs to be shimmed so it is parallel to the drum (it is currently sanding tapers on the top of workpieces).		

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
426	6/22/2022	Drum San...	Action	Drum not parallel to bed.		Referred to manual for drum realignment. Much more aligned, but a more experienced user can follow the instruction further for an indepth realignment. https://www.manualslib.com/manual/998487/Jet-16-32-Plus.html
427	6/23/2022	Drum San...	Action	Height adjustment crank felt stuck and felt like it would damage the machine if used.		I had to loosen the nuts at the slots that attach the drum arm to the lift mechanism. The manual might call out a specific torque that provides the perfect balance of slide vs rigidity in the cantilever. Had to wing it, and didn't check what that did to the parallel adjustments made by Violet earlier. Setting to yellow until that can be verified.
428	6/23/2022	Drum San...	Request	Bed abrasive (esp near crank side) is worn to the point of not being able to properly feed workpieces past the drum. Needs to be replaced for proper operation.		
429	9/10/2022	Drum San...	Action	Was missing the sanding wrap around		Replaced it

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
430	11/10/2...	Drum San...	Request	Table abrasive badly needs to be replaced. It no longer has enough grip to properly feed material through the machine. One of the ceramic guide blocks has also fallen out of the machine. It is currently sitting on the window sill.		
Equipment:		F				
431	2/25/2021	Planer	Request	After cutting for a while the motor will just stop, as if turned off by a switch. After turning off the power and waiting five minutes or so it will work again. I felt the motor housing and it was not hot, but I suspect the problem is an internal thermal overload protection system of some sort that is malfunctioning.		N/A
432	3/17/2021	Planer	Request	Planer is tripping its circuit. Capacitor may need replaced. Functional with caution.		N/A
433	3/25/2021	Planer	Action	Faulty planer overload switch?		Replaced the overload switch. Seems to work, but only time will tell if the intermittent problem is truly resolved.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
434	4/9/2021	Planer	Request	Blown capacitor caused oil to drip out and start burning.		N/A
435	4/27/2021	Planer	Action	Starter cap blew		Cord replaced cap currently functional
436	7/3/2021	Planer	Request	Stopped while using and won't restart		N/A
437	7/4/2021	Planer		Would not start		Replaced the start capacitor and reset the breaker. Motor must have been pulling a lot of amps to trip the breaker, indicating it was overloaded (too deep a cut) when it shut off.
438	7/22/2021	Planer	Request	The planer table is difficult to adjust. The table doesn't seem to be camming, so probably the columns just need to be lubed.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
439	7/29/2021	Planer		power switch falling apart due to broken light cover piece		Mark Schmick reverse-engineered, modeled, printed, and installed a new cover!
440	7/29/2021	Planer		sticking table height		Lubed the columns with teflon spray. Moves freely now.
441	8/20/2021	Planer	Request	The height adjustment crank is missing it's shaft key. Part # needs to be looked up. The directional label that goes on the face of that crank is also missing (was damaged beyond repair). A temporary key was put in place but should be replaced as soon as possible with one that fits properly.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
442	9/16/2021	Planer	Request	<p>The run capacitor (not the start capacitor) popped when running a 14" slab of walnut through. I made a full turn of the crank prior to this pass and backed it off when I heard the machine stalling, but it was too late.</p> <p>We have a spare capacitor but need technical help to install it. In the meantime I'm going to make a sign noting that each pass should be limited to ~1/4 turn of the crank and post it on the machine - hopefully we can reduce user error on this in the future.</p>		N/A
443	9/16/2021	Planer		blown start cap		replaced cap
444	10/16/2...	Planer		Missing key in height adjustment crank		Replaced the temporary key with a new key from the kit that was ordered. Now that the crank is tightly attached to the shaft, there is obviously some severe play in the gears, and some roughness to the movement (it feels like a length of the worm gear may be worn away). The top of the column housing the gears should be disassembled and inspected.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
445	12/2/2021	Planer		User reported that the dust collector was blowing instead of sucking. Investigation of the chip chute showed 100% blockage.		Cleaned blockage.
446	12/15/2...	Planer	Request	Planer won't turn on.		N/A
447	12/16/2...	Planer	Request	<p>2 problems. 1 when I tried to feed materials through the right side of the planer it wouldn't go in, but the left side worked fine.</p> <p>2. Later that evening 12/15/2021 I tried to turn the planer back on and it did not turn on. Yes, I did un plug it and plug it back in 😊.</p>		N/A
448	12/16/2...	Planer		planer would not start		replaced start capacitor and reset the breaker. Resetting the breaker would probably have been enough, but the capacitor was starting to leak and the bleed resistor was coated in oil, so I thought it best to swap it out.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
449	1/2/2022	Planer		Smoke coming from motor compartment.		Checked to make sure it wasn't smoking sawdust. Smoke and leakage coming from capacitor (?). Red tagged the system until part can be replaced.
450	1/6/2022	Planer		no-start		replaced blown capacitor. we have two spare run caps in the back.
451	1/23/2022	Planer		Lines being left in freshly planed surfaces. Visual inspection of inserts showed two chipped teeth in the same rotation (probably hit a nail). Dust shroud was also clogged with wood chips.		Adam rotated the affected cutters to fresh faces. No appropriate torque wrench is in the shop to tighten these to spec.
452	1/26/2022	Planer	Request	I was using the planer and everything was fine. Then at one point, the planer stopped moving stock through the knives. If I had to guess, I'd say maybe it's an evil spirit cursing the part that moves the wood.		N/A
453	1/27/2022	Planer		Power feed was not working		Re-engaged the clutch lever on the right side to 16fpm. It was in neutral.


#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
454	3/20/2022	Planer	Request	<p>Checked out on 3/20/22; middle drive belt is significantly frayed and needs to be replaced. The belt is labeled "M-58 1210" which is apparently not a standard designation. I tried measuring it as well and cannot find an appropriate substitute. Need help.</p> <p>Other issues: infeed table is not flush, bed and rollers need cleaning.</p>		N/A
455	4/22/2022	Planer	Request	table surfaces need to be de-rusted and waxed		N/A
456	5/19/2022	Planer	Request	I found the machine unplugged and opened; apparently the capacitor needs to be replaced but a maintenance request was not submitted. Submitting now		

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
457	5/23/2022	Planer	Request	<p>Planer is in Weird Indeterminate State. Found Saturday AM unplugged and front cover off, -suggesting- that something was wrong, but it powered right up and worked fine. (This greatly mollified the member who had come in to use that specific machine.)</p> <p>We REALLY need a brief troubleshooting card attached to this machine.</p>		
458	7/14/2022	Planer	Request	<p>Plane rollers need to be aligned. When passing a wide panel (~14") through the machine, the panel will pull to the left towards the end when the infeed roller is no longer engaging the workpiece. This suggests that the left side of the outfeed roller is too low, causing the workpiece to skew left upon exiting the machine.</p> <p>The machine also bogs down with even very light cuts (~1/32 of an inch) on a wide workpiece, which is likely tied to the same issue. This issue was discussed with Violet yesterday afternoon.</p>		

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
459	11/5/2022	Planer	Request	<p>A member noticed that there a small amount of oil dripping from the right-hand side of the machine. In an abundance of caution, I am gonna red-tag this machine until the severity of this issue is determined.</p> <p>(This is the side of the machine where the feed-rate selector is located.)</p>		
460	11/13/2...	Planer	Action	Dull and damaged inserts leaving terrible finish		Carl Bajandas rotated some cutters and replaced others, but more need to be replaced. One insert has a torx bit broken off in it and cannot be removed without significant effort. Carl was looking for an extractor, but had not yet located one when I left.
461	1/6/2023	Planer	Request	<p>During planing, chips are being ejected out the front of the machine, likely indicating that the internal dust collection hood/passageway is either misaligned or partially blocked. I couldn't determine the issue from the outside without removing the cover.</p> <p>I left it marked as yellow due to the previous maintenance status report; the chip evacuation issue has no real impact on the machine's usability in the short-term. Long term, chips may build up in places they shouldn't be. Like water, chips will always find a way.</p>		

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
Equipment:		S				
462	6/29/2022	Soldering ...	Request	The hot air rework station does not have a holster for the heat wand. it's not really all that safe to sit it down horizontal. we need to fabricate some kind of holster for it modeled after the original. It's difficult to find any info about that old version of the rework station.		
463	8/11/2022	Soldering ...	Action	one less now, could still use a set of nozzles but that's a next project kinda thing.		Bent wire to reproduce a holder for the side of the unit
Equipment:		I.				
464	3/28/2021	Injection ...	Action	Nozzle was clogged with plastic.		Performed a clean up to unclog the machine and got it ready to use.


#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
465	8/8/2021	Injection ...	Request	melted plastic on middle 9 burners that will need to be cleaned		N/A
Equipment:		▼				
466	1/25/2021	Vacuum F...	Request	Broken pump motor		N/A
467	2/9/2021	Vacuum F...	Request	Not assembled?		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
468	2/10/2021	Vacuum F...	Action	Motor siezed		<p>Disassembled motor and found one of the vanes was backwards, which did not allow enough clearance for the rotor to spin past the 12:00 position (most compressed). The motor spins freely after reassembly. The pump is now able to pull air, but the vacuum shuts off as soon as it starts to pull. I'm guessing there's a vacuum limit/safety switch/software-controlled circuit breaker somewhere that is tripping prematurely. Or maybe it is perfectly calibrated to not suck the innards out of my hand when I cover the vac port. It doesn't seem to immediately reset for the next pull, but does reset after a reboot or after waiting some unknown amount of time (5-10 minutes?).</p> <p>The plastic motor cover needs to be re-installed if the side panel gets pulled during further investigation.</p>
469	6/23/2021	Vacuum F...		Unclear. The motor was originally seized and there was evidence of gunk in the motor.		Installed a new transformer for 230A to ensure consistent voltage (building supply is ~208 +/- 10%) and a new pump.
Equipment:						

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
470	2/4/2021	Vinyl Cutter	Request	Cutting crooked/offset and not completing curves on lettering. I tried adjusting the rollers, cutting in different areas, adjusting overcut and blade offset amounts, and adjusting pressure and speed. It may be a problem with the belt or the motor.		N/A
471	2/4/2021	Vinyl Cutter	Action	Left nut on motor wheels keeps coming loose. Plastic protective strip is worn.		Temporary strip secured with double sided tape.
472	2/6/2021	Vinyl Cutter	Action	<p>One of the two nuts that hold the motor in alignment has been working itself loose and causing poor cuts, especially on curves. The cutting strip also had grooves and was in need of replacement.</p> <p>For now, we can use the Event's Vinyl Cutter which lives in the near way-back.</p>		Secured a new cutting strip to the bed and replaced the nut. It's still working itself loose and in need of Blue (removable) threadlock and/or a secondary nut to hold keep it in place. Home depot was sold out, some should arrive by mail on Sunday.
473	3/18/2021	Vinyl Cutter	Action	Down for Maintenance		Temporarily replaced with backup cutter

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
474	11/3/2021	Vinyl Cutter	Request	Bottom right bolts holding the horizontal brace (with the brand text decal on it) to the right vertical stand are either missing or incorrect. As a result, the machine is tilting to one side, and is currently quite unstable. The left bolts appear to be working properly. Fix with caution!		N/A
475	11/9/2021	Vinyl Cutter		Loose stand collapsing		The two screws holding the right leg to the cross support had backed out. They were encapsulated/hidden inside some plastic housings, but once the caps were removed, the whole thing just screwed back together with a phillips driver.
476	2/25/2022	Vinyl Cutter	Request	The monitor for the attached computer goes to sleep very quickly, and frequently ends cutting jobs mid-way through. Also, when the rollers jog large pieces of vinyl forward or back, it can crash the system and sounds almost like a minor electric shock through to the monitor. The cut job can also end mid-way through in these instances.		N/A


#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
477	3/20/2022	Vinyl Cutter	Request	Disassembled and went over the Laserpoint II. Tightened the belt and all main fasteners. Cleaned up and tested with a few cuts, and seems to cut great and straight. Swapped it out and put it in production, and moved the MH to storage. Also, not seeing the computer hanging issue after a few cuts. Is it possible that's on large/long cut jobs?		N/A
478	5/31/2022	Vinyl Cutter	Request	The belt connected to the motor for the cutting head broke. I was running a lot of big jobs on it today, but it kept getting loose on me. Almost made it through...		

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
479	6/2/2022	Vinyl Cutter	Action	Belt popped off.		<p>Noticed that it doesn't use a close looped belt, but instead it uses a clamp to hold a belt strip together. I also noticed that when the carriage moves close to the left side of the cutting area, the belt clamp runs into the gears on that side.</p> <p>I removed the belt and positioned it so the belt clamp would be on the right side of the carriage and would no longer run into anything. I also cut a small piece of the belt off to use in conjunction with the clamp as an interlock. This should help prevent the belt from popping out from the clamp again in the future.</p> <p>After reinstalling the belt and setting the tension, I performed some test cuts, and everything cut and measured as it should.</p>
480	1/12/2023	Vinyl Cutter	Action	Cuts not weeding well		Replaced the knife. Used the last knife. Put in purchase request for more.
Equipment:						

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
481	3/19/2021	Dye Subli...	Action	Was not printing		Updated software
482	2/25/2022	Dye Subli...	Request	Mug Press: Pressure adjustment knob seems loose - won't tighten consistently.		N/A
483	2/25/2022	Dye Subli...	Request	Black, cyan, and magenta ink needs replaced for optimum results.		N/A
484	2/28/2022	Dye Subli...	Request	Potential for streaking. Probably needs print head alignment/cleaning		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
485	3/2/2022	Dye Subli...	Request	Ran a few tests on the printer - all appear normal. Ran a de-condensation cycle. Test print of the PH logo did not have streaking. Seems to be working fine. However, we need new ink and a new waste ink collection unit. Materials have been formally requested.		N/A
486	3/25/2022	Dye Subli...		Software needs updated to print proper quality		N/A
487	3/25/2022	Dye Subli...		Mug Press: pressure adjustment was bent/broken		Disassembled and purchased/modified a bold (m7x1) to fit in the sleeve correctly. Tightened up and reassembled. Pressure adjustment works fine now. It does seem that the outer adjustment dial/bolt is slightly bent but not enough to cause any issues, and would be a specific oem part.
488	4/24/2022	Dye Subli...	Request	Low ink		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
489	5/24/2022	Dye Subli...	Action	Low on ink		Replaced all ink cartridges and waste reservoir.
490	12/6/2022	Dye Subli...	Request	Black ink is low - the last class we did, the black was not showing up well		
491	1/7/2023	Dye Subli...	Action	Previous report to the black ink wasn't working very good		I tested it out. Ink levels on the readout show. Yellow is the lowest still in decent shape and printing. Black seemed to work fine
492	1/26/2023	Dye Subli...	Request	Ink levels are getting low for yellow and black. I am happy to change them, but I'm not sure where the fresh ink is at.		
493	1/26/2023	Dye Subli...	Request	The Graphics computer cannot connect to the internet.		

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
Equipment:						
494	2/6/2021	Heat Press	Request	Press is working fine, but the teflon sheet is spent and in need of replacement.		N/A
495	3/17/2021	Heat Press	Action	Needed replacement Teflon		Ordered and replaced sheets
496	4/24/2021	Heat Press	Action	Vinyl melted to the platen from misuse		Cleaned the melted vinyl off of the platen. It is good to use, but the machine still needs a new power switch button.
497	4/24/2021	Heat Press	Request	No teflon was used for HTV vinyl so it melted to the top platen. Needs to be scraped clean. It's functional, but should not be used until the platen is cleaned		N/A


#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
498	4/24/2021	Heat Press	Action	Vinyl melted to the platen from misuse		Cleaned the melted vinyl off of the platen. It is good to use, but the machine still needs a new power switch button.
499	9/3/2021	Heat Press		The power switch was missing, and the in-line fuse was not in the circuit.		Added a power switch (not quite the right size, so the fit is loose, but works.). The fuse is reconnected.
500	11/21/2...	Heat Press	Request	The inline 20 amp fuse at the back of the press keeps tripping. The machine is plugged into a 15 amp circuit, so the fuse probably isn't actually preventing an over-current situation. The fuse is probably thermally activated, and due to its position above the level of the heat bed is getting heated over time by the normal usage of the machine (just bad engineering). When the power switch was installed, the fuse was not part of the circuit, and was probably left out of the circuit for just this reason. The fuse should either be protected from heat (shielded or relocated, maybe get a cord with a fuse at the plug?)		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
501	12/7/2021	Heat Press	Request	Doesn't turn on		N/A
502	12/8/2021	Heat Press	Request	Does not turn on. This is the heat press near the vinyl cutter. Problem noticed during clearance class last night. Lizzee couldn't turn it on.		N/A
503	12/9/2021	Heat Press		Fuse was tripped.		Reset fuse and added a note to the yellow tag. Fuse probably needs to be removed from circuit.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
504	12/16/2...	Heat Press	Request	I know it's currently yellow for this reason, but i tried to use the Heat Press today, and it took over an hour to heat up with about 30 breaker resets required (the one on the machine). Wasn't sure if that was expected in current state or if it's getting worse, which is why i wanted to bring it up. If it's thought that it's just the breaker going bad, i would be happy to volunteer to take that apart and replace (if someone can order the part).		N/A
505	2/7/2022	Heat Press	Request	Potentially faulty breaker (button on the underside) consistently needs to be pushed in order to turn machine back on (I observed it shutting off in between hot presses) and keep the unit from completely cooling too much after it shorts out and shuts down. Was also told it was having issues starting up - It took 45 mins to heat up instead of the usual 5 to 10 mins.		N/A
506	2/10/2022	Heat Press		Shutting off after a minute		Removed heat breaker from circuit.



#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
507	5/23/2022	Heat Press	Request	<p>Charmel was experiencing difficulty getting the heat press to heat up They do have experience with similar machines of their own And indicated that they might just not have the right knack for interfacing with the machine just yet</p> <p>A test run might show it works fine. They were actively reviewing the tutorial while trying to figure it (I did as well for a number of minutes) . I did also let them know I can show them where the Maintenance Request form is if they want when they have time.</p> <p>I Let them know that someone might contact them in response to this to help them sort it out. I also encouraged them to look into the Discord so they may engage with other members that use similar machines for similar work for general information etc</p>		

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
508	5/23/2022	Heat Press	Request	<p>Charmel was having trouble getting the machine to heat up properly</p> <p>Apparently they do have experience with similar machines of their own, but couldn't figure out the proper approach for this one while working on a number of things</p> <p>They indicated they might just not be fully getting the instructions given (They were actively reviewing the tutorial)</p> <p>I tried some as well, but couldn't make progress after a few minutes</p> <p>I let them know they can ask me to show them where the maintenance requests are on the site when they have time and that they may find the Discord useful for connecting with other members doing similar work for information etc</p>		
509	5/24/2022	Heat Press	Action	<p>Issues heating up in a timely manner, as well as maintaining temperature.</p>		Officially yellow tagging the equipment due to its recent heating issues.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
510	12/6/2022	Heat Press	Request	<p>Teflon sheet for heat press had ink on it for the Wilkinsburg ministry logo . It's coming off on other items. Should probably be replaced by the person who is affiliated with that logo</p> <p>https://www.heatpressnation.com/products/pro-grade-non-stick-sheet?variant=31432650981454&currency=USD&utm_medium=product_sync&utm_source=google&utm_content=sag_organic&utm_campaign=sag_organic&utm_source=google&utm_medium=cpc&utm_campaign=smart-shopping-shopify&keyword=&utm_source=google&utm_medium=cpc&gclid=Cj0KCQiA7bucBhCeARIsAIOwr-8midZNG1Fz7IU5KOgeceWSIMTo-_ZFNOtN5lrO53N4bq44UrXu7mwaAhXcEALw_wcB</p>		
Equipment:						
511	2/2/2021	Soldering ...	Request	<p>There are two oxy-natural gas torches. The larger one is fully operational. The smaller one is a "Little Torch" and could be differentiated from the larger one as such. Green light status for both.</p>		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
512	2/2/2021	Soldering ...	Request	There are two oxy-natural gas torches. The larger one is fully operational. The smaller one is a "Little Torch" and could be differentiated from the larger one as such. Green light status for both.		N/A
513	10/22/2...	Soldering ...	Request	I'm trying to anneal my circle for jewelry class, but seems like I'm not getting any oxygen. I'm getting gas for sure and all the knobs are turned on, but there's nothing on the psi gage or anything. Maybe the tank is out? Or maybe there's another knob that needs to be turned or something?		N/A
514	5/5/2022	Soldering ...		Issues mentioned with gas or lack of.		I had no issues with gas and was able to get a proper flame on both torches. (yeah. that's right. Even the small one.)
Equipment:		F				
515	2/2/2021	Rotary Tool	Request	"Rotary Tool" could be changed to "Flex Shaft" which is what the tool is called. No problem- green light status.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
516	9/1/2022	Rotary Tool	Action	Missing plug on dremel.		Added an aftermarket plug. Dremel is back on the shelves behind the front desk.
Equipment:		T				
517	2/2/2021	Tumbler	Request	No problem. Green Light status.		N/A
Equipment:		F				
518	2/2/2021	Polishing ...	Request	The dust collection system for this is woefully inadequate and should be a HEPA grade filter for extremely fine silica dust. Silica is classified as a human lung carcinogen and breathing crystalline silica dust can cause silicosis.		N/A
519	1/18/2023	Polishing ...	Action	Just a follow up to take this out of red status. The dust collection is now routed through a HEPA filter in the shop vac. This can change to Green.		Put up new steel hoods and routed hoses to a shop vac with a HEPA filter


#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
Equipment: 						
520	2/9/2021	Oxy-Acetyl...	Action	Setting initial status		The cutting torch attachment that was missing was found and is now with the torch tanks.
Equipment: 						
521	3/15/2021	Sandblaster	Request	Cracked nozzle head - Needs replaced		N/A
522	4/6/2021	Sandblaster	Action	Updating online status		New nozzle & new media
523	6/25/2021	Sandblaster	Request	Variable speed motor need fixed or replaced		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
524	6/28/2021	Sandblaster	Request	Bed is no longer vibrating causing grit to accumulate on the sides. Also dehumidifier filter needs replace.		N/A
525	12/18/2...	Sandblaster	Request	Leak in the pneumatic tube at the end near the manifold		N/A
526	1/30/2022	Sandblaster		Could not see through the window		Replaced film with assistance from KK
527	1/30/2022	Sandblaster		Low pressure through gun, very leaky connection at compressor hub.		Fitting was 1/4" pressed and hoseclamped into 3/8" hose. Took 3/8" pressfit from repair kit in maint closet and made proper sized connector. Put old fitting back in bin of pneumatic parts.
528	3/16/2022	Sandblaster		I can't see!		Replace the plastic covering the glass - it's scratched!

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
529	4/5/2022	Sandblaster	Request	Out of blasting media. I put red status because it just won't do anything but blast air and dust. Will not strip paint at all. AT ALL. 🙄		N/A
530	5/18/2022	Sandblaster	Action	Reset		Reset to green
531	5/18/2022	Sandblaster	Action	Sandblaster functioning normally		None
532	7/1/2022	Sandblaster	Action	Blast medium low.		Screen replaced and blast medium refilled.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
533	8/24/2022	Sandblaster	Request	I think it's time to replace the protective film on the viewport. It's really difficult to see in the center of the viewport. if you lean to the right you can get a decent view if your arms are long enough. I didn't know that was the process last night And also now all of the clear plastic back in maintenance makes more sense as to what it is..... :lightbulb:		
534	10/29/2...	Sandblaster	Action	Can't see through cabinet window & grit was worn		Replaced plastic window protection & emptied old grit. Put a 50# bag of new grit in.
535	12/10/2...	Sandblaster	Action	Jack reported sand blaster wasn't working very well. thought that flow was low, and that he thought that media was low.		<p>we tried back purging. might have helped but the media still wasn't cutting very well. Replaced the media, used about 1/4 of the bag 12lbs or so. What's the right strategy here? let 50lb all get dulled at the same time. or let 12lb get dulled on it's own 4 times over?</p> <p>Also replaced the few port protector, jack and I took a while to clean up all the adhesive goop that built up over the years. installed a screen and installed a secondary screen in the key viewing area so that it can be replaced more frequently consuming less screen.</p>

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
536	1/19/2023	Sandblaster	Action	<p>1) Cabinet light would not come on.</p> <p>2) Horizontal ductwork full of heavy dust.</p>		<p>1) Opened switchbox, observed several non-crimped connections, and some with bare copper showing BEHIND their spade lug insulation. Installed spade lug connectors on ALL wires lacking same. Light now works.</p> <p>2) While moving cabinet to diagnose #1, the top exhaust elbow came apart at one of its rotary joints. Examination showed that horizontal ductwork between blast cabinet and dust separator was 40% filled with spent media. Also, dust drawer in separator was 150% full. I removed all dust in drawer and horizontal ductwork, at least 30 lbs worth. There was NO dust evident in the output ductwork of the separator.</p> <p>SUGGESTION: System should be reconfigured so that output from cabinet goes directly to separator. Horizontal runs should be limited to the OUTPUT side of the dust separator.</p>

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
537	1/22/2023	Sandblaster	Action	<p>Internal LED light strip was flickering on and off, mostly off. It's hard to sandblast in the dark.</p> <p>(But wait, there's more.) Dust exhaust system needs rearrangement, to bring baghouse directly adjacent to sandblaster.</p>		<p>1) Opened switch box on top of cabinet, and determined that connection between lamp and power was ... dodgy. (Multiple electrical connection points were bare stranded wire, some of those were partially broken.) Installed crimp-type spade lugs on ALL wire terminations that were not so equipped. Light works FINE now. Thank you to member Justin who washed and dried the translucent light cover.</p> <p>2) While moving the sandblaster to diagnose lighting problem, the top discharge elbow pulled apart with a thud. Inspection showed that all horizontal ductwork was 40% full of sandblasting fines. (See photo 1.) Maybe 30 lbs worth? The weight of all this, plus moving things around, caused one of the joints in the elbow to come apart. Inspection also showed that the collection drawer at the bottom of the baghouse (dust separator) was 200% full. (Full to the brim and backed up into the bags. (See photo 2.) There was NO dust buildup in the tubing on the output side of the separator.</p> <p>Removed clog by disassembling the rigid ducting, emptying it out, and reassembling.</p> <p>FUTURE ACTION: To prevent eventual recurrence, the discharge tubing from the cabinet should go directly downward to the input of the separator, with no horizontal runs. This means relocating the dust separator to the immediate left of the</p>

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
						sandblasting cabinet, and adding a long run of 4" ductwork to the exhaust point in the window.
Equipment: F						
538	3/2/2021	Powder Co...	Request	<p>Joe Davis reports that the power cord for the booth blower was TOO HOT TO TOUCH, specifically at the point where the power cord enters its molded-on plug. (Indicating possible breakage of wire inside the cord, at that specific point.)</p> <p>FOR TODAY, I cut off the plug and the first 6" of cord, and installed a replacement plug.</p> <p>LONGER TERM, we should consider improvements to to the wiring at the powder coating booth. Perhaps this at a minimum: (A) Power the blower on a single dedicated cable to the outlet. (b) Put the booth overhead light AND the PowderCoat box on a separate dedicated cable to the outlet.</p> <p>That outlet is on a 20-amp breaker, which is shared with another outlet in the studio, specifically 3D printing area. We are probably pushing the limits.</p>		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
539	6/18/2021	Powder Co...		There's a bad connection on the wires between the gun and the power box causing intermittent voltage problems at the gun, causing poor adhesion of the powder. On the gun, the silver connector unscrews part way, but wires are still attached inside preventing complete removal. This connector should probably never be unscrewed. The cable might need to be replaced, or the wires inside the gun might need to be resoldered. The black plastic end of the cable might unscrew from the silver part? Didn't have time to investigate further to find the break in the circuit.		N/A
540	6/25/2021	Powder Co...	Request	Spectra coat box not working properly. Same issue as before. Spray and charge are intermittent. I suggest preheating the metal and spraying metal without the charge. Otherwise you will waste a lot of powder		N/A
541	7/25/2021	Powder Co...	Request	While cleaning booth from yesterday's use I noticed copper wire that extends from tip of gun is missing. No idea if this affects use in any way. Will try to research if time allows today.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
542	9/3/2021	Powder Co...		wire tip was broken off, nozzle was missing, and no power at gun.		Replaced the original wire with a chunk of mig wire, re-establishing contact with the gun electrode (under the grey shroud) and lengthening the tip at the nozzle to the original length. Found the nozzle, and it has a slightly too large ID to fit snugly on the gun (possibly a missing o-ring to help the fitment?), so I wrapped the gun with a layer of painter's tape to take up the slop.
543	2/24/2022	Powder Co...		There's a hole/crack in the air line going into the powder coating controller.		If someone can trim the hose and reconnect it, that should be the quickest fix.
544	8/19/2022	Powder Co...	Request	When using the spray gun the air pressure is maxed out causing more much powder to be used than needed. The pressure control knob is stuck so we are unable to lower the pressure to regular levels. The high pressure is also causing some powder to escape the its storage container when the trigger is pulled.		
545	8/19/2022	Powder Co...	Action	The pressure knob was not stuck as previously thought it had a locking function. No maintenance will be required		Discovered a feature of the device

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
Equipment: C						
546	3/17/2021	Computer ...	Request	Workstation Design -09. Clock needs to be reset. It's fine except it won't talk to the internet.		N/A
547	9/23/2021	Computer ...		Looks like the printer is out of toner		Toner taken out and put back in, power cycled
Equipment: N						
548	5/6/2021	None	Request	Motor shaft became disengaged with grinder on Precious Plastics Portable Grinding Machine. There is a black plastic coupling that appears damaged / mis-aligned; as the grinder was running it became more damaged, causing the motor shaft to move out of place and disengage.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
549	7/20/2021	None	Request	The jewelry area's precision 4x4 Steel Bench Block is heavily marred (I couldn't find it on the drop down on the request form). Someone either used a hardened steel hammer or tried to hammer material that was harder than the block. It's usable, but the whole point is to have a flat surface and there isn't really any flat area left on either side. Someone with clearance on the Mill can resurface it there.		N/A
550	7/30/2021	None	Request	(I don't see PANEL SAW in the dropdown list. :/) Blade in PANEL SAW is making horrible, splintery cuts. New blade? Clean the blade?		N/A
551	8/28/2021	None	Request	16 gauge finish nailer likely missing an o-ring. The symptom is that it's shooting a secondary nail. Definitely should not be used until fixed. Broken tool moved to woodshop shelf in maintenance room.		N/A
552	8/31/2021	None	Request	The smoke detector in the utility closet near jewelry has a dead battery. Needs battery to be replaced. Detector is located to the right above the chrome shelf as you enter the door.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
553	9/2/2021	None	Request	Lawn mower won't start. I checked for air and fuel, the engine seems to be getting those. I'm pretty sure the issue is the spark plug. That's the cheapest and easiest first step in trouble shooting the mower. The gas smells old that could have clogged the carb as well.		N/A
554	9/13/2021	None	Request	Router Table' missing from list of equipment to track		N/A
555	9/13/2021	None		Router table maintenance		Mounted a magnetic shutoff switch. Cleaned and (dry) lubed the lift.
556	11/28/2...	None	Request	Ryan Carpenter was using the plastics grinder when the outlet quit working. I do not know anything about electric - whether it tripped or whatever. We looked at breaker box & nothing out of place. I had him use the outlet behind the vacuum former for cleanup.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
557	1/25/2022	None		Trotec - nothing specific, just has been a while since I've cleaned the lens		cleaned the lens
558	4/1/2022	None	Request	Canon Imageclass Printer MF4570dn in studio attached to the four computers is out of toner.		N/A
559	4/26/2022	None		Metal chop saw had missing & chipped teeth.		Replaced the blade

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
560	7/11/2022	None	Request	<p>Website Upgrade Needed</p> <p>I am a weekend only member, and so have a limited time I can be in the shop, and since I'm not around often, I have a limited knowledge of the service status of shop equipment.</p> <p>Yesterday I made a reservation for Laser 2, and drove from my home in Oakland to cut out one of the detailed wooden boxes I make.</p> <p>Arriving at the shop I was disappointed that Laser 2 was Red Tagged for service. Talking with the tech on duty, I asked how I could have known about this machine being down before I drove over.</p> <p>She showed me that I could have checked the service Equipment Maintenance Status page on the Protohaven website. Before she pointed it out, I didn't know there was such a page. On that page she demonstrated that I could have scrolled down or sorted equipment by service condition.</p> <p>What would have been better, is if the reservations page could have</p>		

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
				<p>indicated there was a service problem with Laser 2, and not allowed me to make a reservation for a piece of equipment that wasn't working. This would have saved me the drive over.</p> <p>As a one time website developer, I see that the reservation system is implemented as a shopping cart, and it may not be easy to dynamically update inventory count to zero. Still, it would be useful to indicate equipment status on the product page. A quick-and-dirty way to do this would be to IFrame through to the specific tool status on the maintenance table.</p> <p>Best, Phil</p>		
561	8/25/2022	None	Action	Toilet in center stall (non-urinal restroom) clogged and nearly overflowing.		I carefully plunged until everything went down and then flushed multiple times to ensure it was working properly again. Cleaned up and disinfected the area. All fixed and in good working order.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
562	8/25/2022	None	Action	Same toilet clogged again. This time it was clear that someone here during my shift tried to flush a feminine hygiene product down the toilet.		I unclogged the toilet (AGAIN) and ensured it was flushing properly. I made quick paper signs hanging inside the bathroom stalls in the non-urinal bathroom that state "Please do not flush feminine hygiene products down the toilet". This particular toilet also requires you to hold the handle down until it completely flushes, so I also indicated that on the sign for that stall. My feelings will not be hurt if someone decides to remove them and replace them with something more permanent or professional.
563	8/30/2022	None	Request	Digital multimeter does not have a 9v battery in it.		
564	8/30/2022	None	Request	end stop on the handle of the wood small vise broke. will need a new one fashioned and attached.		

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
565	8/30/2022	None	Request	Metal vise in on work table missing crown nut and washer. So there is nothing to leverage the vise screw. Has anyone found the Crown Nut? it's pretty identifiable? Otherwise there are 4 vises in the back we can swap it out or scavage the crown nut and washer whatever is easier		
566	8/30/2022	None	Action	Starting at 3:15 or so the wifi turned tragic.		I power cycled all the network thingies out front and the WIFIs got better.
567	9/7/2022	None	Action	wood vise handle ends broken		printed and installed new ends for the wood vise handle.
568	10/24/2...	None	Request	Canon computer printer is almost out of toner		

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
569	11/2/2022	None	Action	Website's disk was full,		I deleted some softalicious backups and configured softalicious to save 3 backups instead of 7
570	12/27/2...	None	Request	Angle grinder - handle broke off. Karen found another one in the back that is "usable" but the cord is being held together with electrical tape. She is using this one for the class, but both angle grinders need attention.		
571	1/3/2023	None	Request	Ryobi Battery Died and will not charge. says Tech Shop on it so it's an oldie.		


#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
572	1/7/2023	None	Action	Many computers we not getting / keeping DHCP leases		<p>Cord and I Tried to figure out what was up with the network reset the netgear. unplugged the white verizon device. reset the verizon device in the black case.</p> <p>ran a nmap to see what was on the netowk. There are a few myseries like what's the device identified as a fortinet firewall.</p> <p>Has it been any better since saturday? What's the admin password for the netgear? Is the white verizon thing even needed? Is there any reason the old phone base station is still pluggined into the pots phone line when that line doesn't ring the main line any more? How old are the messages on that base station answering machine?</p>
573	1/26/2023	None	Action	Ryobi sander bearing was seized		<p>New bearing got shipped in. Reinstalled and is running fine. Disc doesn't spin quite as freely as I'd like to see, and I imagine there is some small amount of friction between the pad and the bearing. Should be fine.</p>
Equipment:		S				

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
574	5/8/2021	Serger	Action	Troubleshooting fourth needle installation: tension and stitches		<p>TENSION: Adjusted needle tension from all the way loose to almost all the way tight with little or no change to stitch tension. Tension on needle 4 does not appear to be functioning properly.</p> <p>STITCHES: Fourth needle seems to also be dropping stitches. I noticed that the #4 needle is visibly shorter, but I'm not familiar enough with this particular machine to say if that is correct or not.</p> <p>I left a numbered sample of the stitches as I increased tension in the machine parts box in the cabinet for reference.</p>
575	5/10/2021	Serger	Action	On-going research of why the 2nd needle isn't chain-stitching correctly.		<p>Changed out the needles and re-threaded, still skipping 2nd needle stitches and breaking. It could be a timing issue. I'll leave the rest to a professional!</p> <p>https://www.szwalnicze.com/cat_ju_ins/juki-MO-6000.pdf</p>

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
576	6/14/2021	Serger		Gaps in stitching and 2nd needle thread breaking, skipping stitches. (re-visit unresolved problem)		To fix the gaps happening when the machine slows down then speeds up again, I adjusted the belt tension. (I left a tape where the bolts were originally) When sewing with one needle, the stitches were more consistent. Once the 2nd needle was installed, it still took several tries to get the chainstitch to go more than two inches without breaking. I adjusted the upper looper and the 2nd needle, it eventually went all the way to the end, but it seems to miss 3 out of 4 stitches. As far as the different height of the needles goes, all of the diagrams in the manuals show the needles at different heights.
577	4/12/2022	Serger		Checked the stitch problem, found the machine was threaded incorrectly. I don't see dropped stitches, but this machine is finicky in the tension adjustments. (no guide numbers, just infinite knob turning) Tamira had it adjusted about as well as it can be. It will sew, just not the kind of stitch you might expect for two needles. I'll keep an eye out for more information.		Cleaned out the lower looper area, re-threaded the 4th thread and the 3rd (both needle threads)
578	11/17/2...	Serger	Action	The left needle (responsible for the chain stitch) has been malfunctioning for the last couple of years.		Found a shop that can repair it, pulled the machine head out, brought it to the shop. Art replaced the worn out chain looper and corrected the timing. He also pointed out user errors, like needles not installed correctly and the tension turned up way too far. Brought it back and re-installed.


#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
Equipment:		I.				
579	2/1/2021	Industrial ...	Request	Set screw for primary needle is missing which prevents using the machine with two needles (preferred method of operation). It can and does function with one needle but not optimally.		N/A
580	7/10/2021	Industrial ...	Request	#4 needle seems to be working better, but still dropping some stitches.		N/A
581	5/5/2022	Industrial ...	Request	The machine is unable to provide a proper stitch even when threaded correctly.		N/A
582	1/25/2023	Industrial ...	Action	The 2nd needle stitch didn't loop in with the overlock portion to make a chain.		The machine was serviced in November 2022, The lower looper was replaced and timing was adjusted. The repair shop also noticed that the needles were improperly inserted and the tensions were too high. The 2nd needle stitch runs well now!
Equipment:		I.				

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
583	2/13/2021	Industrial ...	Request	Broken presser foot finger guard (part# 10337905)		N/A
584	2/13/2021	Industrial ...	Request	Broken presser foot finger guard (part# 10337905)		N/A
585	4/19/2022	Industrial ...		broken finger guard		replaced the finger guard
586	5/5/2022	Industrial ...	Request	This machine shows inconsistency when stitching. The thread will cut off even though threaded correctly and adjustments have been made to the tension settings.		N/A
587	1/18/2023	Industrial ...	Action	Lower tension was sticking		Requested and installed new bobbin holder.


#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
Equipment: 						
588	2/6/2021	CNC Embr...	Request	Displayed error - main motor current error and inappropriate need stop position - to fix turn off and unplug, turn back nob until needle is back in place, then turn it back on should be back to normal		N/A
589	4/30/2021	CNC Embr...	Action	Bent needle on needle #6 - it bent while embroidering a hat. All other needles are fine and functional.		Don't know where the spare needles are or how to replace them.
590	6/9/2021	CNC Embr...	Request	needle 1 broke, was running and broke out of no where no clue how.		N/A
591	6/17/2021	CNC Embr...	Request	the second needle broke, the thread I was using got caught on itself and made the tension of the needle snap the needle. In future we should advise people that using threads that have brackets at both ends will cause complications in embroidering. Make sure that the thread has a smooth release from its spool.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
592	12/7/2021	CNC Embr...		Three broken needles		Joe bought needles, I replaced the broken ones - Thanks Joe!
593	3/22/2022	CNC Embr...		broken needle		changed the needle
594	6/29/2022	CNC Embr...	Action	Bobbin ran out		Replaced bobbin and oiled machine
595	6/30/2022	CNC Embr...	Action	Bobbin thread was being pulled to the top of the fabric. Some problems with 'birdnesting' on bottom side of fabric.		Cleaned out build up of thread around bobbin case. Adjusted tension of top thread.
596	6/30/2022	CNC Embr...	Request	Broke needle 2. Was unable to find a replacement. Machine still usable, just avoid using needle 2		

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
597	7/14/2022	CNC Embr...	Action	Needle 2 detached during stitching. Machine reporting "main motor error." I don't have time to fix it tonight, but I'll get to it on Monday		Replaced needle 2, will further repair on Monday
598	7/19/2022	CNC Embr...	Action	Machine is red tagged. The fifth needle is jammed.		Changed all needles. One was bent, one was entirely the wrong needle for the machine, (fourth position) which probably caused the failure. It was ground up at the kerf. A test is called for at this point.
599	8/22/2022	CNC Embr...	Action	Machine previously jammed		Test ran using all six needles. Needle 4 is still shredding thread occasionally, but the machine is otherwise fully functional.
600	9/7/2022	CNC Embr...	Request	Needle for thread #4 broke while using it today. Suggesting yellow status, as 5/6 are working as normal.		
601	9/13/2022	CNC Embr...	Action	broken needle		Changed needle. Please note - when changing needles, use the H 1.3 tiny hex, and don't over-tighten.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
602	10/5/2022	CNC Embr...	Action	Consistent tensions issues w/ Needle 5		<p>Thoroughly cleaned & reset all tension knobs. Dusted out bobbin case, presser feet, as much of the needle plate as I could. Need to get an offset phillipshead to remove needle plate for a more thorough cleaning: does anyone know if there's one somewhere? Couldn't find in maintenance room.</p> <p>Tension knob 6 is missing a small piece, but is still functional (hasn't had any tension issues that I have noticed). Will put in purchase request.</p>
603	10/5/2022	CNC Embr...	Action	Missing parts to the hat attachment		<p>Tried to assemble hat attachment for embroidery machine, but is missing several key parts. Submitted maintenance purchases for all missing parts.</p> <p>CNC Embroiderer is fully functional, but hat attachment is not at this time.</p>
Equipment:						
604	2/2/2021	Aluminium...	Action	Without grinding wheel		Installed new grinding wheel



#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
605	2/2/2021	Aluminium...	Request	Grinding wheel replacement		N/A
606	2/2/2021	Aluminium...	Request	Grinding wheel replacement		N/A
607	2/2/2021	Aluminium...	Action	Without grinding wheel		Installed new grinding wheel
608	2/2/2021	Aluminium...		Without grinding wheel		Installed new grinding wheel
609	5/6/2021	Aluminium...	Request	No shield, needs a new one.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
Equipment:						
610	1/29/2021	Manual M...	Request	Desperately needs scheduled maintenance for oil in head as well as the ways and cross-slide.		N/A
611	3/4/2021	Manual M...	Action	Tail stock cam pushing past "lock" position		Adjusted cam travel distance. Tail stock locks firmly.
612	4/16/2021	Manual M...	Action	spindle not receiving power from motor		Checked engagement of gears & discussed with Kirby. Was able to get high and low speed settings to work without issue. Possibly the problem was that 'K' is just easy to push past it's engagement point when turning that lever, and wasn't engaging the transmission.
613	5/28/2021	Manual M...		all ways and slides were completely dry		Thoroughly oiled all moving slides and ways. The lead screw still needs to be cleaned out and oiled, and some crud gently scraped off the far end of the ways.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
614	4/4/2022	Manual M...	Request	The retaining pins holding the camlocks in place are missing. This allows the camlocks to fall out/be slung out of the spindle nose, which is deadly dangerous. New pins need to be ordered. The camlocks should be removed from the machine until new retaining pins arrive. The collet holder can be used without the camlocks, but no jawed chucks can be installed.		N/A
615	12/20/2...	Manual M...	Request	There are two dial indicators in the machining tool box both missing a part or two making neither usable. It would be nice to source the missing parts and get those going .		
Equipment: T						
616	1/29/2021	Tormach	Request	Two lubrication lines for the z-axis are broken. I have the parts, they just need implemented.		N/A
617	4/19/2021	Tormach	Request	"No start" issue has been dealt with. Still needs last 2 lube lines fixed.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
618	7/15/2021	Tormach	Request	<p>The pleated boot on the Y axis has a cut in it, letting chips in. I poked a finger through and confirmed at least wood chips (who's cutting wood on a Tormach?), and probably aluminum as well on the ways.</p> <p>I'd like to patch the boot and clean the ways. Duct tape should be fine for the patch.</p>		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
619	7/17/2021	Tormach	Request	<p>Not a problem, I just can't post to #maintenance yet.</p> <p>I'd like to install an air blast system on the Tormach, consisting of an 1) air source, 2) manual valve at the spindle (pressure adjustment), and 3) solenoid valve controlled by the "Coolant" switch.</p> <p>Marty showed me the buildout you've done for air in the metal shop (nice), however they're still a good distance from the Tormach. Short-term I'll buy/borrow a little air compressor. Then when the line's extended you can swap it out.</p> <p>Any spare compressors around the shop? Maybe in your garage that you're not using?</p> <p>Marty also pointed out the extra chip guard which I'll install. Probably I'll need to extend it all the way around (plastic sheets or something) for 360° containment.</p> <p>Questions/Concerns? I should have the parts by Tuesday.</p>		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
620	7/5/2022	Tormach	Request	Sheared x axis coupling		
621	7/6/2022	Tormach	Action	x axis wasn't workin		jiggled some wires. swapped x and y drivers everything worked. swapped back tightened several screw terminals inside the control box. We think it's green but without running a milling job we're going to leave it yellow.
Equipment:						
622	2/3/2021	Arbor Press	Action	The rotary anvil is broken, and currently in the possession of Carl, who is going to attempt to braze it back together.		N/A
623	8/9/2021	Arbor Press	Request	A piece of the plate has broken off.		N/A
Equipment:						

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
624	2/2/2021	Disc Grinder	Request	Green status, good to go online!		N/A
625	6/4/2021	Disc Grinder	Request	Sanding disc tore and lodged itself in between the disc and the table surface. New disc needs ordered.		N/A
626	6/5/2021	Disc Grinder		Torn sanding disc jammed in machine.		Dislodged the sanding paper and acquired new sanding paper. The motor was non functional. The electronics of the starter need to be looked at.
627	6/6/2021	Disc Grinder		Wouldn't turn on		Jeff Peterson fixed circuit box connection & attached new sanding pad.
628	10/18/2...	Disc Grinder		There is a gash in the surface of the abrasive. It needs to be replaced.		None. Still usable w/ caution. Will need to have the abrasive disc replaced.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
629	2/21/2022	Disc Grinder		Disk sander not. Veronica's band saw are tuning on.		Electricity is not in my wheel house but neither the vertical bandsaw nor the disc grinder are tuning on and both are on the same 3 phase plug.
630	2/23/2022	Disc Grinder		Won't turn on		Reset the breaker. Abrasive is still damaged, so setting to yellow status.
631	4/1/2022	Disc Grinder		Found sanding discs in back room (top metal shelf) & tried to replace the one half torn off. The table is too close to the disc on the right hand side & can't find a way to adjust it. Couldn't find the manual & ran out of time. Discs are available for anyone who knows how to make the disc/table adjustments.		see above
632	4/5/2022	Disc Grinder		Disk needed replaced, alignment needed done		Karen and I Aligned motor, and table; Karen replaced disk.




#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
633	4/5/2022	Disc Grinder		The disk is at an angle to the table, no space to put on a new disk.		We found the two set screws Cord mentioned, but can't fit an allen key behind the disk. Both screws seem to be loose already.
634	7/19/2022	Disc Grinder	Action	<p>No abrasive disk. I cleaned the surface with acetone. Installed and pounded the new disk on. Should be stuck on there for a while.</p> <p>When cleaning the adhesive I would use goo-gone first before wiping with acetone. The dust from the grinder, sand blaster and wood shop was embedded into the old adhesive causing adhesion problems. (That's my take)</p> <p>Also, avoid using the outer most inch of the abrasive as it may heat up the adhesive causing it to come loose and warping the abrasive disk --- it will then get caught on the edge and rip.</p>		<p>No abrasive disk. I cleaned the surface with acetone. Installed and pounded the new disk on. Should be stuck on there for a while.</p> <p>When cleaning the adhesive I would use goo-gone first before wiping with acetone. The dust from the grinder, sand blaster and wood shop was embedded into the old adhesive causing adhesion problems. (That's my take)</p> <p>Also, avoid using the outer most inch of the abrasive as it may heat up the adhesive causing it to come loose and warping the abrasive disk --- it will then get caught on the edge and rip.</p>

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
635	8/30/2022	Disc Grinder	Request	Won't turn on. Not a breaker issue this time since the vertical band saw (on the same line) works. This happened a couple weeks ago - Sidney replaced a tiny "U" shaped metal piece in the electrical box and it was functioning again. Not sure if it's the same issue this time.		
636	9/1/2022	Disc Grinder	Action	No-start		Was able to get the grinder started by messing with the brake pedal. The yoke holding the brake pad was rubbing and intermittently getting jammed against the motor housing, keeping the emergency switch in the 'off' position. Was going to shim the armature to fix the interference, but Jeff's sharp eye caught that the bolt/hinge was probably bent. Turning the bolt did reveal a significant bend, and pulled the armature back to straight. That bolt is no longer bottomed out in the casting, but I added blue loctite (liberally, hoping it will seep into the threads I couldn't get to) with the hopes that it will stay put. A new bolt will be needed if this issue crops up again. Theory is that stomping hard on the brake pedal put too much leverage on the hinge, bending the bolt. Signage to "be gentle and patient with the brake unless in an emergency situation" is recommended.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
637	1/24/2023	Disc Grinder	Request	ther's a nick on the sanding pad. it's not red. but on the way out. per Karen		
Equipment:		T				
638	1/28/2021	TIG Welder	Action	N/A		Refilled both tanks & hooked up a tank to welder.
639	1/13/2022	TIG Welder	Request	The high frequency start is getting pretty flakey. It has had sporadic problems in the past, but seems to be getting worse. Possibly the contacts are going bad? I'm not too familiar with the internals of welders. Machine status is teetering between yellow and red.		N/A
640	1/16/2022	TIG Welder		HF start inconsistent and unreliable, had to scratch-start or high-amp start an arc roughly 1/3 times tried.		Cleaned contact for electrode, sharpened tungsten, tightened connection for remote, cut back and retinned ground cable so it wasn't frayed and the strain relief was on the insulation instead of rubbing loose against wire. Was able to start an arc at low amperage 5/5 times.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
641	7/10/2022	TIG Welder	Request	Out of Argon. Placed empty tag on the cylinder, both the pure argon and 75/25 backup tanks are also labelled empty. About 900psi left in the MIG (75/25).		
642	7/23/2022	TIG Welder	Request	Out of gas!!		
643	7/30/2022	TIG Welder	Action	Out of gas		Replaced the cylinder with one of the butler gas rental cylinders.
644	9/29/2022	TIG Welder	Request	Part of the rubber casing of the torch has torn off, leaving the white plastic gasket free to fall off when the cup is removed. Torch needs to be replaced, part number needed to make request. Possible shock hazard near torch neck.		

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
645	12/22/2...	TIG Welder	Request	Machine is dealing shocks to users. During class a couple students got shocked while welding. I believe this is due to damage near the tip of the insulating rubber overmoulding of the torch. Possibly damaged by someone screwing on the cup too tightly, twisting the rubber off. It is difficult to properly assemble the torch, and it is not properly insulated. Should maybe be red tagged, but it still functions. Needs to be addressed quickly. Will try to find the proper torch and submit a purchase request.		
646	12/22/2...	TIG Welder	Request	The high frequency start is getting flaky again. Last time this happened, the grounds and related connections were cleaned thoroughly which seemed to clear up the problem. If that doesn't work, the next thing to look at would be the HF contacts, which may need to be rebuilt/cleaned.		
647	1/26/2023	TIG Welder	Action	Torch head was shocking users		New torch got shipped in. Installed by swapping the twist lock adapter on the end of the old hose. New nozzles also came in, so I put on a #5. Leaving at yellow status due to difficulties initiating the high frequency arc. I would guess that the HF contacts need to be cleaned.


#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
Equipment: 						
648	4/21/2021	Metal Drill...	Request	Jan reports that it is noisy during operation. The last time this was noisy, the pulley attached to the motor was loose. Recommend checking the set screw, and if there is movement between the shaft and the pulley, add some shim stock to take up the space, otherwise the constant wiggling will wear away the metal on those mating surfaces.		N/A
Equipment: 						
649	2/2/2021	Shop Press	Request	Green status, good to go online!		N/A
650	2/16/2022	Shop Press	Request	The ram is missing from the bottom of the jack plate. The bottom of the jack plate is also bent/dented where the ram used to be. This makes it very difficult to keep things aligned vertically when pressing.		N/A
Equipment: 						

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
651	1/21/2021	Horizontal...	Action	Blade is missing teeth. Can only assume gravity feed is being used too fast.		No action taken, just tagged machine.
652	1/21/2021	Horizontal...	Action	Drain for wheel housing plugged with chips.		Unclogged it & cleaned housing.
653	7/22/2021	Horizontal...	Request	On the very last dregs of coolant.		N/A
654	7/22/2021	Horizontal...	Request	On the very last dregs of coolant.		N/A
655	7/26/2021	Horizontal...	Request	Dull blade - not cutting at all. Hearing clunking noises also (chipped teeth?).		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
656	7/29/2021	Horizontal...		Blade change		Installed new blade. Did not do any tracking alignment nor break the blade in. The first few cuts need to be taken at HALF the normal speed in order to avoid having the very new, very sharp tooth points sticking in the stock being cut and snapping them off immediately. A controlled dulling is needed.
657	8/20/2021	Horizontal...	Request	The two crank handles at the left of the machine are missing their shaft keys and the set screws are slowly eating away the shaft. The key part # needs to be looked up, and at least one of the shafts will need some file clean-up in order to be able to accept it's key again.		N/A
658	8/30/2021	Horizontal...		Incorrect settings, discovered and fixed by KK. Feed speed was set to 6, motor speed @ ~100 (not a viable combination). Coolant shut off at valves (not part of normal operation, potentially damaging).		Setpoints adjusted and valves reopened by operator before use.
659	9/9/2021	Horizontal...		Missing lift handle		Replaced the missing lift handle with one from the bucket of mysteries. Could still use a new door handle and some door lock knobs.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
660	10/16/2...	Horizontal...		Missing shaft keys for blade tension and clamp shafts.		<p>Replaced the missing keys with new ones from the kit that was ordered. The shafts are pretty heavily damaged, including the key slots. We don't have any small scraping tools in the shop, so I ground out part of one of the new keys in order to get it to fit. Should work, but it's sort of a kludge job that could be improved on with the right tools. The set screws may need to be tightened soon as the keys will probably settle a bit and displace some of the old mangled metal during use.</p> <p>Leaving at yellow as I saw that someone was working on refilling the coolant?</p>
661	1/24/2022	Horizontal...	Request	Coolant not flowing appropriately through the tubes and is not lubricating the blades. Previous troubleshooting included refilling the coolant reserves after observing coolant was below max fill line. Coolant began leaking out after running again and still no lubrication flowing to the blade.		N/A
662	1/27/2022	Horizontal...		Fluid leaking		Cord cleaned the drain port, and turned the pump on. (In the 1 position) Still needs to be leveled.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
663	4/16/2022	Horizontal...		Made a clunk noise and upon inspection, found a fibrous looking material in the saw casing.		Material was cleaned out and saw is working just fine. Jan and Karen experienced the issue and took on the cleaning action.
664	7/1/2022	Horizontal...	Request	The knob that controls the rate of descent of the arm of the bandsaw is jammed at a very high speed, too fast for cutting of most materials.		
665	7/2/2022	Horizontal...	Action	Knob for feed speed was pushed past highest setting & jammed.		Got knob loosened.
666	7/28/2022	Horizontal...	Action	Saw was out of coolant. Very little coming through the outlets, and it was super thick and syrupy.		Added the rest of the pre-mixed bucket, mixed up another 5-gallon batch, and added most of that as well.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
667	7/28/2022	Horizontal...	Action	Coolant level not showing in sight glass		When adding coolant in the past, the sight glass would show the coolant level, and a sharpie mark was made at 'max' level so as to prevent overflow. Some time in the last year, the sight glass stopped working, and coolant would pour out of the overflow tube before coolant would reach the glass. Before/during adding of the most recent batch of coolant, I used a wrench to adjust the legs on the hinge side of the machine so the old 'max' mark now lines up with the overflow hole. Significantly more coolant can now be held in the sump. Coolant should be added only to the bottom of the 'max' line or it will overflow.
668	12/6/2022	Horizontal...	Action	Raked the swarf out of the basin and brushed the drain. aksed about the brown goo. but after I raked it out and test ran it, it looked good.		Raked the swarf out of the basin and brushed the drain.
669	12/8/2022	Horizontal...	Action	User reported clamp bounced back		Cleaned threaded rod in case muck in the threads was interfering with the ratchet.
Equipment:						


#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
670	1/27/2021	Vertical M...	Request	Blade is dull/not cutting steel		N/A
671	2/9/2021	Vertical M...	Request	Upper and lower blade support guides are worn, allowing blades to ride against hardened surfaces causing blade wear from the machine itself. Ordering new upper and lower guides.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
672	2/11/2021	Vertical M...	Action	Blade is dulled beyond use. The user at the time the issue was reported (feb 10th around 6pm) was attempting to cut the supports off of a sintered chrome-cobalt mold. He said the blade already appeared to be dull when he walked up to the machine. I'm guessing the chrome-cobalt is too hard a material for that blade regardless of it's status before he tried to use it. I would guess the hardness would be roughly equivalent to stainless steel, but am not a metallurgist. Nobody in the shop was aware of any cutting that had been done between blade replacement the night before and the time the blade was reported dull. Any additional information about usage during that time would be appreciated.		Alexis was made aware of the situation, and I believe is ordering a new blade?
673	4/16/2021	Vertical M...	Action	Verifying red tag status		Checked state of blade, and it was unable to cut steel. Also disassembled and cleaned the upper guides, and discovered a 'thrust rod' buried in the works, and adjusted it to be closer to the back of the blade. There is probably one in the bottom guides as well, which should also be adjusted. Speed adjustment knob is still missing and needs a replacement.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
674	8/26/2021	Vertical M...		The large belt wheel that drives the saw is slipping		Tried to tighten the set screw but it only helped a little. Might need to be taken off and looked at.
675	8/26/2021	Vertical M...		Slippage between motor and blade		Worked on the linkages a bit. The low gear was not engaging properly. Turning the lower wheel and pushing the lever to low eventually engaged low gear. Transmission may need to be maintained, as engagement is difficult. Belts are slightly worn but holding.
676	11/30/2...	Vertical M...	Request	The speed adjustment crank and speed pointer are missing. The speed gauge pins have been broken off, so the gauge is flopping loose on the side of the machine. Replacement part sites do not seem to have these parts in stock (or they're mis-labeled badly enough to not be trustworthy) so measurements should be taken for the crank (generic cranks are available at fixtureworks.com) and a pointer manufactured in-house?		N/A
677	12/2/2021	Vertical M...	Request	Blade is too dull to cut aluminum		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
678	2/8/2022	Vertical M...	Request	Found that is isn't cutting through. I tried to cut brass tube for the cutting board class, (Jewelry) Sarah tried to cut steel and Parvis tried to cut mild steel, the blade only made a dent. The steel/aluminum settings were checked a couple times. There was a pile of resin on the floor, didn't see who left it.		N/A
679	3/19/2022	Vertical M...		Machine would not start. Problem manifested when I turned the machine off to talk to someone, then turned it back on after 5 minutes or so. The kerf had evidently closed up a bit as the metal cooled, so the machine was a little slow starting up. After using it normally after the slow start, then trying to turn it on for a second cut, it would not start. Feared I had blown the start capacitor.		Turned out the start capacitor was fine, as was the fuse accessible at the on/off switches, but an over-temp fuse behind the control panel had tripped and needed to be manually reset. Leaving this at yellow because the guides still need to be replaced (guide block was heating up pretty badly during use). Noticed that one of the drive belts is also getting very worn. Speed adjustment crank is still missing.
680	3/31/2022	Vertical M...	Request	Blade is dull to the point of being unusable. Please replace.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
681	4/1/2022	Vertical M...		dull blade won't cut		New blade found top metal shelf in the back storage. Tried to put on the new blade, but there was too much wiggle & had to remove it again. The new blade is in the back for anyone more experienced in this than I am.
682	4/10/2022	Vertical M...		No blade		Put a blade on and did the break in procedure. Did the tensioning and tracking as the manual suggested but it looks like the wheels may be slightly offset from each other bc the blade tracking isn't even, causing some forward/backward play while running. Cuts well though.
Equipment:		S				
683	2/18/2021	Shear	Action	LED light on top was flopping free		Removed a broken plastic shoulder from inside and re-attached the base magnet. It will probably pull free again, and we'll need to make a new housing (anyone want practice with 3d design & printing?)
684	2/21/2021	Shear	Action	The cooling fan for the electronics box is making a grinding/whining sound.		Removed the fan and used compressed air to blow it out. However, the whining/grinding sound from the fan still persists. I don't think it's an issue unless the hydraulic press is run continuously, but should we need to replace it, this should be a compatible replacement: https://www.elecok.com/kaku-ka9225ha2-220-240v-0-09-0-1a-cooling-fan.html



#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
685	12/1/2022	Shear	Request	Estop on foot peddle stand inoperable		
686	12/1/2022	Shear	Action	A clip holding the electrical switch to the estop button has broken. Estop does not keep machine off when latched off		Was able to attach the two parts with a zip tie. Should hold for a good long time.
687	1/6/2023	Shear	Action	The light on top of the machine was broken off of the magnet used to hold it in place. The magnet cannot be screwed back in as designed. The light still functions.		As of now the light is taped into place. The current plan is to glue the magnet to the bottom of the light, unless an anterior solution presents itself. The glue needs to be bought so it'll be a couple days until it can be fixed. The magnet is currently at the tech desk.
Equipment:		1.				

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
688	3/4/2021	Ironworker	Request	<p>A sizable chip has been taken out of the shear (dead center, of course). Looks like someone cut rod-stock, which creates large, localized pressure & is guaranteed to damage the blade. This "no cutting wire or rod" is true of any shearing or bending equipment (sheet metal shear, corner notcher, finger brake, iron worker). Special rod shearing blocks can be purchased for the ironworker, or an angle grinder with a cutting disc works great. This needs to be enforced with extreme prejudice.</p>		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
689	4/17/2021	Ironworker	Request	<p>Several issues found when teaching the class:</p> <ol style="list-style-type: none"> 1. The tubing bender's 1" stationary die (part with brass bushings) is bent. Probably works OK, but worth noting. 2. The tubing bender control's wire is cut and the conductors are exposed. Needs to be repaired. 3. None of the cutoff-side guards are installed. Bolts to install are missing (or buried in bins in the way-back). 4. The punch stripper is still bent badly enough so it cannot be easily adjusted when installed on the machine. Some additional bending & fitment is needed. 5. The press brake anvil has several sharp edges that need to be filed down to prevent injuries. Ideally a new one would be purchased, since damage has distorted several of the faces, but that is semi-low priority. 6. The press brake anvil should be able to be clamped in place. The flanges are available, but there are no bolts to attach them to the table. 7. The tubing bender is missing part of the angle adjustment stop sensor, and a knob used to clamp the sensor in position. 8. The notcher accessory is missing the 'tooth' part of that setup. I've seen 		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
				it in the shop, but not since shortly after we moved in the equipment. It used to be with all the stuff that was eventually moved into the spray booth, but it was not there during the last cleanout. It was badly damaged and due for replacement. the anvil part is also pretty worn (cutting surfaces are replacable, and possibly able to be sharpened)		

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
690	4/23/2021	Ironworker	Request	<p>The press brake finger got removed from (knocked out of?) the machine some time early this week. I would guess that the travel of the flat shear was set such that the swing of the accessory arm exceeded the travel clearance between the finger and the side of the machine (which has seen impacts before). The finger falling out uncovered that we are missing one of two bolts holding the top portion of the finger into the machine, and reveals that there is an inherent setup situation inherent with the machine that needs to be addressed somehow (maybe tape or some other buffer to prevent users from accidentally setting the shear sensor too low?). Removing the finger isn't SUPER hard, but would be an additional step when people wanted to use that portion of the machine, and we have no other functioning accessories at the moment. *sigh* We should probably just train to remove the finger. :(</p>		N/A
691	5/4/2021	Ironworker	Request	<p>The press brake tool holder now has three newly tapped holes with 1/4 -20 Allen head bolts. Do not over tighten</p>		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
692	5/7/2021	Ironworker	Action	When using the tubing bender, the floating die can drop into a position where it gets crushed by the arm as the cylinder retracts. This has caused deformation and chipping of the die.		I posted in maintenance a model of a sleeve to be printed that can be placed under the die when installing the retaining pin, which should keep the die at the correct height when the arm is retracting, preventing further damage. Leaving at yellow status due to other outstanding maintenance issues.
693	12/30/2...	Ironworker	Request	Severe damage to press brake. Looks like someone bent a lot of wire or small rod on it, and the anvil looks like it has been planished and has lost some of it's edge, and the finger has some pretty bad notching in it.		N/A
Equipment:						
694	3/17/2021	Manual Pl...	Action	Initial Online Status		Listed as ONLINE
Equipment:						
695	3/22/2021	CNC Plas...	Request	Z-Height is not lifting up after first cut and dragging the torch along the material. Some cuts work others cause the drag.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
696	4/15/2021	CNC Plas...	Action	Z height was not changing properly		Replaced nozzles and reassemble the cutter assembly with Karen. Working properly now.
697	5/26/2021	CNC Plas...		Mach 3 controller came up blank and doesn't work		None - not sure what to do
698	5/27/2021	CNC Plas...		Mach3 Interface would not load		Found a forum link that described the problem. Reloaded interface from view>load screens>1024.set view forum here: https://www.machsupport.com/forum/index.php?topic=21795.0
699	5/28/2021	CNC Plas...	Request	Went to test plasma cutter but the Mach3 screen is missing the torch section. Marty mentioned a plug-in for this but we were unable to locate.		N/A
700	5/30/2021	CNC Plas...		Torch part of Mach3 not on setup screen		Worked with Sahir on this - he found solution. View/load screens/mach3/tmc3in1_v4.3.x.x.set. We tested & it works.



#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
701	7/3/2021	CNC Plas...		Karen and I were trying to replace the water in the table. Drainage valve is clogged and wont drain at all. Need an expendable pump to clear out water from plasma table.		None
702	7/22/2021	CNC Plas...	Request	Not sure how long this has been a problem, but the plasma torch does not properly cut, leaving lots of dross at the top (looks like it isn't cutting through the whole way, and blowing back out of the cut), and is oddly cutting with a slanted/diagonal profile instead of straight vertical cuts, even when using new consumables. Usually that would mean a clogged swirl ring, blown out nozzle or electrode. Suggested that the ground clamp's pads might need to be cleaned and the cable connection dismantled and cleaned as well. Thick cuts are pretty much guaranteed to fail.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
703	7/22/2021	CNC Plas...	Request	Not sure how long this has been a problem, but the plasma torch does not properly cut, leaving lots of dross at the top (looks like it isn't cutting through the whole way, and blowing back out of the cut), and is oddly cutting with a slanted/diagonal profile instead of straight vertical cuts, even when using new consumables. Usually that would mean a clogged swirl ring, blown out nozzle or electrode. Suggested that the ground clamp's pads might need to be cleaned and the cable connection dismantled and cleaned as well. Thick cuts are pretty much guaranteed to fail.		N/A
704	7/25/2021	CNC Plas...	Request	While doing a clearance found that torch keeps diving again - with or without THC control on. Later told by Remy they believe this has to do with Sheetcam software/G code.		N/A
705	7/25/2021	CNC Plas...	Request	While doing a clearance found that torch keeps diving again - with or without THC control on. Later told by Remy they believe this has to do with Sheetcam software/G code.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
706	7/31/2021	CNC Plas...		CNC Plasma needs calibrated in Mach 3. I discovered this with Carl and J. Sharvin suggested good info at build your CNC.com Question #419 for such. We moved it 10" and it went 11+". Maybe we consider an upgrade to Mach 4??		Talked to Carl, John & Cord. No action yet. This is over my head, willing to help/assist
707	8/9/2021	CNC Plas...		Software or hardware problem with ohmic sensor		In conversation with avid about replacement part or updating to newer version of sheet cam and Mach 4
708	8/15/2021	CNC Plas...	Request	Member was making two cutouts, first went great: Steady arc, no issues. A little later a second cutout on same piece of metal with same settings cut poorly and prompted fault 0-12 (from manual: Low input gas pressure or unstable gas pressure). Messy kerf with lots of slag supports that. Gauges read sufficient pressure while idle, was unable to watch gauges while cut was being made in order to confirm unstable pressure, as member was leaving for the day.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
709	8/15/2021	CNC Plas...	Request	Member was making two cutouts, first went great: Steady arc, no issues. A little later a second cutout on same piece of metal with same settings cut poorly and prompted fault 0-12 (from manual: Low input gas pressure or unstable gas pressure). Messy kerf with lots of slag supports that. Gauges read sufficient pressure while idle, was unable to watch gauges while cut was being made in order to confirm unstable pressure, as member was leaving for the day.		N/A
710	9/4/2021	CNC Plas...		None - attempt at Mach 4 update		None
711	9/7/2021	CNC Plas...		Installed the Avid CNC Build of Mach4 the problem with the Z Height Control is still an issue		Mach4 successfully installed and functional. Link to installer: https://www.avidcnc.com/support/instructions/software/downloads/mach4/



#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
712	9/14/2021	CNC Plas...		Mach 4 was installed on the machine and it worked but the issue with the z collision is still there		Mach 4 installed. Sensor replacement needs to be ordered
713	9/23/2021	CNC Plas...		old ohmic sensor dead		physically connected the new ohmic sensor. A quick look at the input LEDs on the diagnostics screen shows no sensor input when the physical z-height indicator button on the torch holder is pushed. Did not investigate further.
714	11/14/2...	CNC Plas...		Height probe was not working		Worked with Karen at troubleshooting, and was able to swap in the CNC router's height probe to the Aux1 input in order to eliminate the ohmic sensor as the issue. The router's probe still did not illuminate the Mach3 probe indicator on the diagnostics screen (labelled 'digitize'). Double-checking the ports & pins settings and comparing them with the router's setup, the plasma's probe's input was set to port 2 pin 8, but the router's was port 2 pin 9. Changing the plasma's probe to pin 9 allowed the router's probe to light the indicator light, and then swapping the ohmic sensor back in on the plasma now allows the height touch-off to work properly. For some reason the momentary switch built into the torch head does not register, but that's not a show-stopper (nobody has ever used it, to my knowledge)


#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
715	7/2/2022	CNC Plas...	Request	Torch is crashing when cutting aluminum. Same file cut steel so it's not the file. Aluminum was weighted so it didn't move. Ground clamp attached to rail or material didn't make a difference.		
716	11/19/2...	CNC Plas...	Request	Air compressor not starting up, reading "54 Check" on screen. Going to read manual and then come back to see if I can do anything		
717	11/19/2...	CNC Plas...	Action	Previously reading check 54		Pressed green on-button. No other actions taken but air compressor turned on. Asked CW to alert me if he notices any issues
718	11/29/2...	CNC Plas...	Action	Table needed drained & cleaned out.		Marty & I drained & emptied sludge. Refilling in progress.
Equipment:						



#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
719	3/19/2021	MIG Welder	Request	Flux is not feeding when triggered (Reported to me by Kennywood)		N/A
720	3/20/2021	MIG Welder	Action	Build up in tip on MIG welder. Needs new Difuser, Nozzle, and possibly liner		placed order
721	3/25/2021	MIG Welder	Action	Melted contact tip and diffuser		Replaced contact tip and filed down the diffuser so it will fit back on the gun. Replacement diffuser is being shipped, and should be swapped in as soon as it arrives. The new contact tip had to be screwed in with pliers due to thread damage on the diffuser, but it should still be able to be swapped to the new diffuser when it arrives.
722	6/19/2021	MIG Welder		Noticed a lot of weld porosity so checked gauge - psi down around 500.		Switched out tank. Psi gauge still at 500. Will keep eye on it during next weld.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
723	6/22/2021	MIG Welder	Request	The high pressure gauge does not properly indicate the tank pressure. The needle was stuck at 500psi both when the valve was closed and the regulator purged, and when the valve was open. After moving the tank around a bit to weigh it, the gauge jumped to 1500psi. The installed tank doesn't appear to have a tare weight stamped on it, but currently weighs 95 lbs. The empty one weighs 75 lbs, but might be a different size.		N/A
724	8/5/2021	MIG Welder		Just documenting that a member reported the contact tip clogged. No maintenance request was submitted for the problem or the resolution.		Another member ground/filed down the tip to free up the wire, and everything works normally. The contact tips are considered consumables that the shop is responsible for, and the replacements are currently with the welding supplies in the storage room. The wire will 'burn back' to the contact tip sometimes when welding too close to the material, or welding upside down and a blob of molten metal falls into the nozzle. Members should be instructed on how to avoid this and how to ask for and replace a tip if needed.
725	11/1/2021	MIG Welder		Tank ran out		We replaced the tank, we will need to get a refill

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
726	11/4/2021	MIG Welder		empty gas cylinder		refilled cylinder and attached to cages as backup.
727	11/9/2021	MIG Welder		The wire was not feeding, and the nozzle would not unscrew from the gun.		The wire had a small jam at the feed wheels, which got cut out and new wire fed. There is a slight gap between the gun and the nozzle due to a poorly seated nozzle, so a very straight wire when feeding is needed to avoid getting stuck while re-threading the wire. Was able to remove the nozzle from the gun, but there is significant damage to the wrenchable flats, and a new one is likely needed the next time it gets removed from the gun. The threads on the gun are mangled, which is why the nozzle is so hard to get on and off. I was able to clean them up somewhat with a needle file, but the nozzle is still very difficult to install and remove. Recommend getting a new gun if the threads cannot be chased with a tap. The nozzle threads are probably also damaged from the interference fit.
728	12/30/2...	MIG Welder		The gooseneck->diffuser nozzle threads have been damaged for a long time.		Installed the new gooseneck and diffuser nozzle. For future reference, the interfacing thread is 1/2" -20. With proper tap & die the threads could have been cleaned up without purchasing new parts.



#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
729	3/31/2022	MIG Welder		Tip welded closed , wire jam		Tip ground and straightened, Waite un jammed
730	4/19/2022	MIG Welder		empty tank		Replaced the tank, a teachable moment - Thank you Sidney!
731	8/21/2022	MIG Welder	Action	Tank ran out of gas.		Swapped out with replacement tank.
732	12/9/2022	MIG Welder	Request	After use, the copper wire is exposed from ground clamp.		
733	12/9/2022	MIG Welder	Request	copper wire disconnected from ground clamp.		

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
734	12/9/2022	MIG Welder	Action	Ground clamp came loose		Reattached grounding clamp. Tightened the bolt down on the loose cooper strands. Cord talked about crimping it in a collar then tightening the bolt on the collar so we'll need to do that. Also the strain relief strap was in a well used state. I took some time to straighten and smooth it and reinstall it. I didn't know if it should be crimp tight or allow some play. So I left it loose enough to allow play but still seemed to provide the right level of strain relief.
735	12/17/2...	MIG Welder	Action	Welder ran out of feed wire		Replaced with new spool
736	1/24/2023	MIG Welder	Action	Out of gas		Switched out tank
Equipment:						


#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
737	5/7/2021	Hand Notc...	Request	It looks like smeone used one of the guides as a base plate on the pneumatic press, and bent it horribly. Karen said she'd try to straighten it out. If that doesn't work, that part will need to be replaced. We also seem to be missing the washers that are needed for the guides to be properly secured by the wing nuts.		N/A
738	10/3/2021	Hand Notc...	Request	Guide blocks need new bolts. They could be 1/2" Carriage Bolts x (about)2", with washers and wingnuts. We need two of each item.		N/A
Equipment:						
739	5/7/2021	Hand Brake	Request	Adjustment bolt is missing on the right side (currently replaced by threaded rod, which works, but is unwieldy). The proper bolt needs to be determined and purchased.		N/A
Equipment:						

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
740	10/8/2021	Electric Sli...		The left height adjustment knob's screw was bent, making it impossible to adjust the left side. The right adjustment screw's knob was missing, making it impossible to adjust the right side.		Was able to re-machine the tip of the right height adjustment screw (which was horribly bent, making adjustment impossible), and 3d-printed a new knob for the right side, but it needs a spring pin installed in order to be properly secured. The right side has a bit of a wobble in it, and needs to be re-machined, but works well enough for now.
741	8/16/2022	Electric Sli...	Action	Gisegrips used as right adjustment knob. there was a 3d printed knob there but no pin to fasten it. I fashioned a pin and attached the knob. Leaving yellow from previous description of stripped screw		Gisegrips used as right adjustment knob. there was a 3d printed knob there but no pin to fasten it. I fashioned a pin and attached the knob. Leaving yellow from previous description of stripped screw
742	12/1/2022	Electric Sli...	Request	Estop on foot peddle stand inoperable.		
743	12/29/2...	Electric Sli...	Action	Estop too loose to use		Was able to find some set screws the proper size and got everything snugged up and working.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
744	1/20/2023	Electric Sli...	Action	Rear roller was seized		Sprayed some wd40 into the mechanisms and it freed up. Looks like old grease is present but no longer helping. Those holes in the collars are probably grease/oil ports. Should look up proper lube type in manual and apply. Also noting that we need some sort of home made adapter for the height cranks for a drill.
Equipment:		T				
745	5/7/2021	Turret Pun...	Request	the 1/8 punch (the most commonly needed punch) has been missing since acquisition, and should be replaced.		N/A
746	5/7/2021	Turret Pun...	Request	the 1/8 punch (the most commonly needed punch) has been missing since acquisition, and should be replaced.		N/A
747	7/17/2021	Turret Pun...		Handle fell out in-use		Tightened hex screws. Someone might want to look at this.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
748	1/23/2022	Turret Pun...	Request	Two of the positions (A & B, size will need to be looked up from the chart on the side) are unusable. The unusable positions are missing either the just the punch or both the punch and die. These two were the smallest sizes, and are commonly needed to punch holes for screws/bolts appropriate for thin sheet metal. The larger punch sets are in good shape, but are less useful than the missing sets.		N/A
749	12/14/2...	Turret Pun...	Request	Punch and die for 1/8" is missing. What is the replacement process?		
Equipment:						
750	5/5/2021	Metal Cho...	Request	Metal chop saw blade needs replaced.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
751	5/5/2021	Metal Cho...	Action	Metal Chop saw Allen head screw missing from blade casing. Replaced. Saw blade has chunks missing & needs replaced.		Replaced allen head screw
752	5/5/2021	Metal Cho...	Request	Metal chop saw blade needs replaced.		N/A
753	5/5/2021	Metal Cho...		Metal Chop saw Allen head screw missing from blade casing. Replaced. Saw blade has chunks missing & needs replaced.		Replaced allen head screw
754	7/23/2021	Metal Cho...	Request	The "engagement channel" popped out of it's place under the clamp screw. I roughly put it back in, but it is rattling around and isn't right. Looks like there are two holes in the casting for the ears of the "engagement channel" to clip into, but a few minutes with a metal punch is needed to secure that in place.		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
755	4/18/2022	Metal Cho...	Request	Chipped & missing teeth		N/A
756	5/18/2022	Metal Cho...	Action	Blade was bad		Replaced Blade
757	11/28/2...	Metal Cho...	Request	<p>The twirly handle on the clamping wheel needs some loc-tite. I was unable to locate any last night. Yellow cuse karen already found it lying on the ground away from the saw once. so keep an eye on it.</p> <p>Also the blade on the saw is missing a few carbide teeth. should ensure we have a new one ready to go into service when the old one gives up the ghost.</p>		
Equipment:						

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
758	1/26/2021	Forge	Request	Anvil on taller stump needs secured		N/A
759	1/26/2021	Forge	Action	Pull down on garage door was broken		Added a length of rope to garage door for ease of operation
760	1/26/2021	Forge	Request	garage door cord pull-down broke off & needs replaced		N/A
761	1/26/2021	Forge	Action	Pull down on garage door was broken		Added a length of rope to garage door for ease of operation
762	1/26/2021	Forge	Request	Anvil on taller stump needs secured		N/A

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
763	1/26/2021	Forge	Request	garage door cord pull-down broke off & needs replaced		N/A
764	1/26/2021	Forge		Pull down on garage door was broken		Added a length of rope to garage door for ease of operation
765	1/28/2021	Forge	Action	N/A		Refilled backup propane tank
766	6/8/2021	Forge		Propane level too low for 3 hour class		Sahir & I changed tanks

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
767	10/16/2...	Forge	Request	i was hammering steel using the vise on edge of table, and forge shook off edge of table, flipped onto side. Remy and i quickly righted it up, though we noticed the gas line rubber hose was nicked- but unsure if that was already like that or if it happened during the fall.		N/A
768	10/16/2...	Forge	Request	i was hammering steel using the vise on edge of table, and forge shook off edge of table, flipped onto side. Remy and i quickly righted it up, though we noticed the gas line rubber hose was nicked- but unsure if that was already like that or if it happened during the fall.		N/A
769	10/16/2...	Forge		The forge fell off the table: Insulation and igniter damaged, chip in insulation on propane line and inlet valve is bent but works.		Tested valve and propane line for leaks with homemade snoop, but found none. Insulation needs replaced and igniter needs work.
770	10/18/2...	Forge		Damaged shutoff valve		Shutoff valve replaced and tested. While testing found that the igniter is not throwing off consistent spark so a new one was ordered.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
771	10/20/2...	Forge		Forge was knocked onto floor. Various damages. Notably the started failed		Purchased and installed new starter. Forge ignites properly now. Insulation needs repaired next. Heats inefficiently.
772	10/30/2...	Forge		The right (when looking at it from valve side) burner wasn't igniting.		Cleaned nozzles and put back together so that the nozzles aim down the center of the burner tube. It appeared that the right nozzle wasn't lined up, preventing a steady flow of gas down the tube for ignition.
773	11/1/2021	Forge		Propane low		Switched out tanks
774	11/4/2021	Forge		empty gas cylinder		refilled gas cylinder for backup
775	2/14/2022	Forge		HD100 is curing until Wednesday - OFFLINE		Taking offline temporarily

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
776	2/20/2022	Forge	Request	Propane fittings leaking a lot, snooped it and it appears to be a Teflon issue.		N/A
777	2/20/2022	Forge		Leaking from connection from tank to regulator due to Teflon being dissolved by propane.		Cleaned threads and applied gas rated teflon
778	8/25/2022	Forge	Action	minimized propane leak. used brass brush to try to remove debris from regulator connector. used a scrap of wood to remove oxidation from the inside of the butler gas nozzle. it's still leaking but below any rate of concern.		minimized propane leak. used brass brush to try to remove debris from regulator connector. used a scrap of wood to remove oxidation from the inside of the butler gas nozzle. it's still leaking but below any rate of concern.
779	11/21/2...	Forge	Action	Out of propane.		Changed out tank.
Equipment:		I.				

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
780	4/24/2022	Industrial ...	Request	Member reported that the bobbin securing lever popped off, not able to keep a bobbin in or run a straight stitch. Fallen off part is at the front desk.		N/A
781	5/3/2022	Industrial ...		Bobbin shuttle was broken and stuck in place.		removed and replaced the broken shuttle
Equipment:		F				
782	3/6/2022	Powder Co...	Request	After 1 1/2 hours the oven still was not getting up to temp. Middle coils working on both sides. Bumping up the temp might help.		N/A
783	6/30/2022	Powder Co...	Request	Only the middle heating elements work on both sides of the oven. Could not bring up to cure temp (450 degrees) even after several hours.		
Equipment:		F				

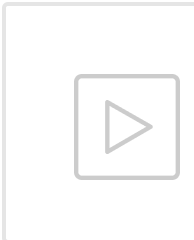
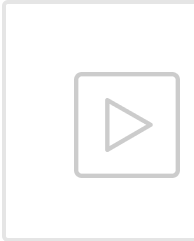
#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
784	9/10/2021	Router Table	Request	Has anyone adopted the router table for maintenance? Would you mind if I make a few improvements and fixes, including adding a proper mag switch, cleaning and lubing the lift, and maybe sorting out a better way to attach the fence than a clamp? Also, can I join the maintenance group?		N/A
785	5/19/2022	Router Table	Request	needs an 8mm hex wrench to be added to the kit in order to use the lock on the fine adjustment knob. The old throat plates (locking clockwise) need to be re-printed with new versions (locking counterclockwise). I'll try to post some files here this weekend for printing by techs during the week.		
786	5/26/2022	Router Table	Action	Update on allen key and throat plates:		Brought a 1/8" allen wrench from home and added it to the checkout kit. The majority of the throat plates still need to be converted to the reverse-threaded style
787	5/26/2022	Router Table	Request	The bearings in the router table are getting worse. Need a replacement router or a rebuild of the motor.		

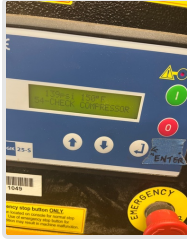
#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
788	6/4/2022	Router Table	Action	Bad throat plates		Threw out 2 clockwise-locking plates and started printing a replacement, which should be finished by the start of tomorrow's shift.
789	6/11/2022	Router Table	Action	Missing throat plate		Got a 2" plate printed and put in the kit, so large bits can now be used. Will try to print a medium diameter for next week.
790	9/13/2022	Router Table	Request	The cap on the back of the router is dangling by the power switch wires		
791	9/18/2022	Router Table	Action	hanging cover on router motor		I reattached the cover in a temporary way, and is now held in place by one slightly-too-short screw. One of the two original screws has broken off in the casting, and the other was missing. I'll source two new 8-32 screws about 1.5" long and will extract the broken remnants.
792	9/19/2022	Router Table	Action	Cover hanging loose		Extracted broken screw and added two new screws. Cover is now secure.


#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
793	12/23/2...	Router Table	Action	Missing throat plate for larger bits		I passed off a 3d model to Jeff Bearer, who printed out a new plate and added it to the router table kit. Jeff mentioned that there was only one other plate in the kit with a very small opening, so additional plates are probably needed. I'll work on prepping the files for that and making them publicly available. There should have been a blue 1" plate in the box, maybe it got left in the table?
Equipment:		A				
794	5/26/2022	Air Compr...	Request	Terrible noises. This needs to have it's fluids checked immediately. If irreparable damage hasn't already occurred, it is about to.		

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
795	6/16/2022	Air Compr...	Action	Sooooo Dirty. Making a high pitch squeel and Low on oil.		<ul style="list-style-type: none"> - Vacuumed Radiator and the rest of the compressor (This needs to be done weekly) - Vacuumed Air Filter (Should also be done weekly) Air filter is accessible by removing black vented panel on right side. - Topped Off compressor oil was about a pint low. maybe more. <p>It's still making an obscene racket from the Air End. Air Filter and the two oil filters should be replaced. as Cord says no maintenance has been performed on it in over a year.</p> <p>Parts to Order:</p> <ul style="list-style-type: none"> - https://eatoncompressor.com/product/air-compressor-filter-rotary-screw-filter006/ - https://eatoncompressor.com/product/air-compressor-filter-separator-rotary-screw-series-filter009/ - https://eatoncompressor.com/product/air-compressor-filter-mann-filter070/ <p>When they are in the oil should be changed and parts replaced.</p> <p>The eternal racket the air end is making might be just need of bearing lubrication, directions of which I can't find online. or it might need to be rebuilt.</p>

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
796	6/17/2022	Air Compr...	Request	<p>Needed actions: when ordered filters arrive:</p> <ul style="list-style-type: none"> - Grease Bearings on Electric Motor - Replace Filters when delivered - Change Oil - Reset appropriate counters in firmware. <p>Additional Consideration:</p> <ul style="list-style-type: none"> - Have a service call about the unhealthy sound from the Air End. - See if our generation is compatible with the pre-filter cabinet kit - Implement a service schedule for the Compressor. - Plumb air intake to pull from outside. <p>Jeff Bearer has the details on above.</p>		
797	8/6/2022	Air Compr...	Action	<p>Still should have a service call come out and determine what the squeeling noise is. unless this has been done.</p>		I replaced all of the air and oil filters and changed the oil around 7/15/2022
798	8/11/2022	Air Compr...	Action	<p>todo:</p> <ul style="list-style-type: none"> -Service Call -Condenser Trap for Plasma -Remount Condencer for sandblaster to cabinet. 		<p>todone:</p> <ul style="list-style-type: none"> - new 3 regulator manifold set at 80 for shop tools, 125 for the blaster and 135 for the plasma. - Made 5 hose hooks and mounted them in each area where there was an air hose lying on the ground.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
799	8/16/2022	Air Compr...	Action	Ungodly squeal	 	I tightened the belts a lot. I think I'm at 1/4" deflection as the manual calls for. No change in the noise.
800	9/18/2022	Air Compr...	Request	Heavy air leak at Plasma CNC regulator knob. The regulator will need to be replaced or rebuilt (it's probably just a ruptured o-ring, but I've never had one apart). The regulators aren't able to be isolated from the main line, so to prevent a constant leak and excessive running of the compressor, I've shut off the valve at the outlet of the compressor tank (that valve handle needs a nut, didn't identify the size)		
801	9/19/2022	Air Compr...	Action	Leak at cnc plasma		None, but the leak has stopped on its own overnight, seal may have repeated itself when the pressure was removed from the lines. Leaving at yellow, and we should keep an ear out for it for a while.

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
802	10/14/2...	Air Compr...	Request	Error code "54-check compressor" appeared on the display, after checking the manual and online I believe the error code is one that appears every 2000 or so hours of use to check the belt condition and tension. I'm not 100% on that as the error code isn't appearing exactly as it does in the manual, but this is the only reference to the error message I could find.		
803	11/13/2...	Air Compr...	Request	Belts broke		
804	11/15/2...	Air Compr...	Action	Installed compressor belts.		Installed compressor belts
805	12/15/2...	Air Compr...	Request	We really need to get the air dryer fixed. Just drained a quart of water out of the tank!		


#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
806	12/15/2...	Air Compr...	Action	Cord and I looked at the dryer. He thinks the compressor is shot.		Cord and I looked at the dryer. He thinks the compressor is shot.
807	12/19/2...	Air Compr...	Request	Condensation drain on the side of the tank is leaking air pretty badly not sure how to fix it.		
808	12/21/2...	Air Compr...	Request	Last night when I emptied the moisture from the air tank it came out a rusty brown instead of the oily black it was up to now. Idk just how bad that is. But it is not ideal		
809	12/27/2...	Air Compr...	Request	Oil low		
810	12/27/2...	Air Compr...	Action	I went to top off the oil in the compressor but when I checked the oil level was properly filling half the sight glass. so I didn't do anything		None

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
811	12/29/2...	Air Compr...	Action	Air dryer not turning on.		Fixed! Looks like there was a safety switch that was stuck 'closed' cutting all power to the dryer. Looks like a coolant pressure sensor. Is located at the hot gas bypass valve. There is evidently a button on the back of the module that when jiggled fixed the open circuit problem.
Equipment:		T				
812	6/23/2022	Table Saw ...	Action	Surface needed sanded and cleaned		Sanded, cleaned and waxed cast surfaces. Used 1000 grit wetdry paper, acetone, and finishing wax (thank you Cord). Other than using some different materials and NOT using the palm sander I followed this video for the technique. https://www.youtube.com/watch?v=3UMPqJ0KPRY

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
813	7/6/2022	Table Saw ...	Request	<p>SawStop cartridge activated while cutting through a piece of scrap MDF. Scrap had a several partial (incomplete) cuts on a laser cutter. Personal hypothesis is that carbon in laser kerf was enough to affect the conductivity of the MDF.</p> <p>I'm happy that the maintenance report allows me to enter both saws. I'm sad that I affected both machines with this cut. Yes, set off both machines.</p> <p>"Every 'don't cut this' rule originated with an "oops, I shouldn't have cut that" event.</p>		
Equipment:		F				
814	6/29/2022	Reflow Ov...	Action	<p>Doing these fixes on the thing to make it work better smell less and lest risk of injury. yay but it's disassembled and i need kapton tape to come in before it goes back together.</p>		<p>removed masking tape. fixed grounding problem. adding cold junction sensor. need to flash firmware, and add tape still.</p>

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
815	8/16/2022	Reflow Ov...	Action	Finished the modifications for the reflow oven. Flashed new firmware and installed programming port		Finished the modifications for the reflow oven. Flashed new firmware and installed programming port
Equipment:		S				
816	8/6/2022	Scroll Saw	Request	I broke the blade on the scroll saw. Josh didn't think that we have replacement blades so marking it Red		
817	8/6/2022	Scroll Saw	Action	broken blade		found the blades! installed a blade and made a little pocket for holding the blades and attached it to the saw.
Equipment:		L				

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
818	10/6/2022	Laser 1, La...	Action	Lasers do not have the maintenance routine that they need		<p>1. removed honeycomb and vacuumed out catch bin. scrubbed the bin and the support slats with a blacksmithing brush.</p> <p>2. swept and vacuumed out the bottom of the lasers. found the rotary tool?!?! tightened some nuts on the idler pulleys for z.</p> <p>3. cleaned lens, mirror 3 and mirror 2 on both lasers mirror 1 looked clean and I didn't find the keys to open the back panel until later.</p> <p>4. fully removed all clogged honey comb on laser 2 about 2/3 on laser 1.</p> <p>5. removed doo-dads from nozzles, red dot laser and focusing clicky switch.</p> <p>6. cleaned nozzles from accumulated crud and grime.</p> <p>7. repaired air leak on air assist hose near nozzle on laser 1 with electrical tape.</p> <p>Identified scratch on lens of laser2 it's significant, idk if it warrants a replacement purchase.</p> <p>Still TODO:</p> <p>1. Laser 1 needs to have the rest of it's bed exfoliated.</p> <p>2. Both beds need some oven cleaner and a power wash.</p> <p>3. We should check the blowers. the caked on crud on the vent hoses in the laser make me wonder what the inside of the blowers look like.</p>

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
						<p>4. once we get all the grease parts in we need to install greasing nozzles into the bearings and grease up those rails.</p> <p>5. Laser 1 needs a simplegreen wipedown on the inside of the enclosure.</p>
Equipment:		C				
819	10/19/2...	Consumer ...	Action	Machine jamming when trying to pull up the bobbin thread		Removed needle plate & found birds nest of thread wound around the bobbin case. Removed excess thread, machine operating normally again
820	10/28/2...	Consumer ...	Request	<p>I was attempting to sew a zig-zag on knit fabric. Machine consistently bird-nested, as if my tension was too high (was set to 0 originally, tried 1 and 2, but both had the same result). Pulled up the needle plate to see if thread was catching, but saw no glaring issues.</p> <p>Problem is on sewing machine B (will make vinyl letters next week for machines, currently labeled with a sharpie)</p> <p>Will be marking as green so that it doesn't appear like all sewing machines are down, but this particular machine is red-tagged.</p>		

#	Timestamp	Equipment	Request or action	What's the problem?	Images of problem (optional)	Actions taken
Equipment: C						
821	10/25/2...	CNC Rout...	Action	dry as a bone		started a lubrication regimen on the machines. hope to finish it tomorrow.
Equipment: L						
822	1/3/2023	Laser 2, La...	Action	Dirty		<ul style="list-style-type: none"> - Cleaned the lenses on both lasers Laser 1 was filthy, Laser 2 barely. - Cleaned the slots in the catch tray - Cleaned the blower fans - Noticed that Laser 1 has a million holes in its exhaust hose and it's leaving a mess on the floor.
823	1/24/2023	Laser 2, La...	Request	replaced vent hoses with new ones.		