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PART 3: REMOVE OBJECT & WASH


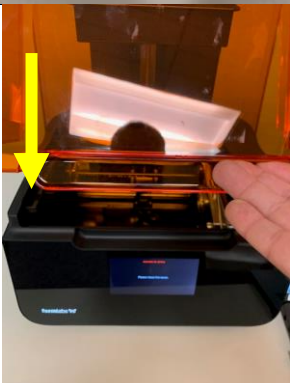

STEP BY STEP INSTRUCTIONS: REMOVING OBJECT FROM PRINTER & WASH

Removing Completed Print from Printer

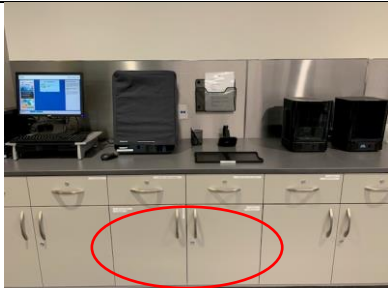


Typical Time to Complete: 50 minutes


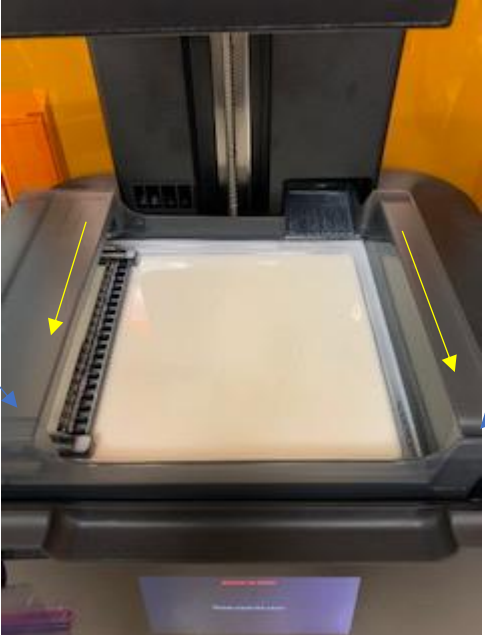

1	<p>Put on protective equipment:</p> <ul style="list-style-type: none">• Nitrile gloves• Safety glasses <p>Reminder to wear safety equipment if you do not already have on gloves and safety glasses.</p>	<p>Avoid getting any resin on your skin.</p> <p>Avoid getting any liquid solvent from the wash unit on your skin.</p>  <p>See posted First Aid on how to handle exposures to:</p> <ul style="list-style-type: none">- Liquid Resin- Isopropyl Alcohol (washing solvent)	 
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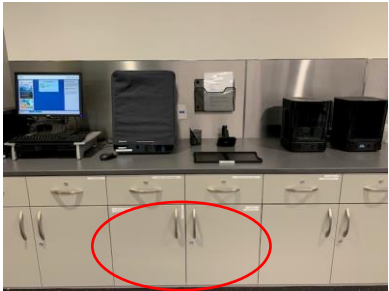
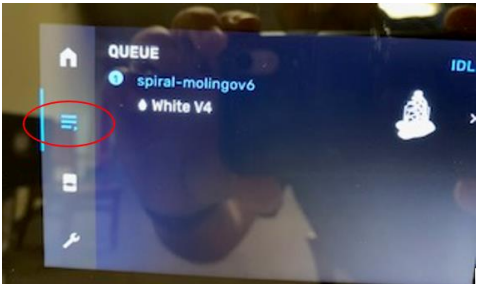
2	Open Printer Hood	Lift the hood from the handles by the base.			
3	Lift build platform latch.	The image shows the latch in the lifted and <u>unlocked</u> position.			
4	Slide build platform out.	With the latch in the lifted unlocked position, the build platform is able to slide out.			


5	Set build platform in work area.	Use the work tray to place the build platform on top of to catch any resin.	
6	Close printer hood.	In order to remove the resin cartridge bottle, the printer hood will need to be closed.	
7	Close spout on resin cartridge bottle.	Closing the spout is important step to preserve shelf life of resin and in preventing leaks or spills.	





8	Paper Towel Ready	<p>You may need a paper towel to clean the bite valve at the bottom of the resin cartridge bottle.</p> <p>A single small paper towel is sufficient.</p>	
9	Remove resin cartridge bottle.	Lift the resin cartridge bottle up to remove.	
10	<p>Wipe bite valve.</p> <p>Use paper towel.</p>	<p>If there is any resin on the outside of the bite valve, wipe it clean with a dry paper towel.</p> <p>Dispose of paper towel in trash.</p>	 <p>Gloves should be worn.</p>
11	Replace bite valve cover on bottom of resin cartridge bottle.	<p>Retrieve the cover you set aside earlier.</p> <p>This cover will protect the bite valve while the bottle is in storage and improves the storage time.</p>	




12	<p>Return resin cartridge bottle to storage cabinet.</p> <p>Place cartridge bottle in plastic sleeve.</p>	<p>Labeled cabinet below drawers.</p> <p>Be sure to put resin cartridge bottle back into plastic sleeve to protect against leaks from bite valve.</p>	
13	<p>Select tank storage container.</p> <p>Label on container must match resin type used in tank.</p>	<p>Retrieve the tank storage container you set aside earlier.</p>	
14	<p>Remove orange lid from storage container.</p> <p>Check interior of storage container is clean and dry.</p>	<p>In the next step you will be lifting the tank out of the printer.</p> <p>You will want the storage container to be ready to receive the resin tank.</p>	




15	<p>Remove resin tank from printer.</p> <ul style="list-style-type: none"> • Grasp tank handles. • Gently pull tank back towards you. • Tank should move back just slightly. • Lift up tank. Tank should lift up easily. 	 <p>Never touch the bottom of the resin tank or rest it on the counter.</p> <p>Do not touch resin in tank.</p>	
16	<p>Place tank in storage container.</p>	<p>Never place a resin tank into a storage container that is not clean and dry.</p> <p>Clean and dry the storage container with Isopropyl Alcohol and paper towels if needed.</p>	


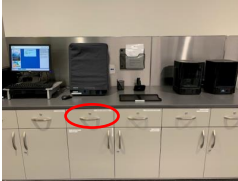


17	<p>Cover storage container with orange lid.</p> <p>Double check label on front matches resin type in tank.</p>	<p>Be sure the lid is snug.</p>	
18	<p>Place tank storage container in cabinet.</p>	<p></p> <p>ALWAYS KEEP LEVEL</p> <p>Even slightly tilting the storage container will result in spills inside the container.</p>	
19	<p>Delete file from print queue on printer.</p> <ol style="list-style-type: none"> 1. Tap Queue icon on printer touchscreen. 2. Tap name of file. 3. Tap Delete. 	<p>The printer has limited file storage capacity. Deleting your job off makes the printer ready for the next user.</p>	

20	<p>Open Form Wash unit using dial.</p> <ul style="list-style-type: none"> • Turn dial to highlight Open. • Push dial to select Open. <p>Washing your print later? Skip to instruction # 27.</p>	<p>Turning the dial should wake up the unit if it is sleep mode.</p>	
21	<p>Caution:</p> <p>Do not touch liquid solvent in basin of Form Wash.</p> <p>Do not inhale solvent fumes.</p>	 <p>Isopropyl Alcohol (IPA) is used to wash the objects and can be an irritant.</p>	
22	<p>Insert build platform in Form Wash unit.</p>	<p>Wash unit will use a 99% IPA solvent to remove uncured resin.</p>	



23	<p>Select wash time using dial.</p> <ul style="list-style-type: none"> • Turn dial to highlight time. • <u>Push</u> dial to select wash time. • Turn dial to highlight start. • <u>Push</u> dial to select start. • Wash time will display and build platform will lower into wash unit. 	<p>White v4 Resin: 30 minutes</p> <p>Black v4 Resin: 30 minutes</p> <p>Clear v4 Resin: 15 minutes</p>	
24	<p>When Form Wash Completes:</p> <p>Reminder to wear:</p> <ul style="list-style-type: none"> • Gloves • Safety glasses 	<p>Remember to protect yourself from coming into contact with the washing solvent and the liquid resin.</p> <p></p> <p>See First Aid directions posted for directions if you come into contact with the solvent or liquid resin.</p>	 

25	<p>Remove build platform from Form Wash unit.</p> <p>CAUTION: Concave and hollow geometries may hold solvent. Take care to drain those into the basin when removing build platform.</p>	<p>CAUTION: Wear gloves and safety glasses when removing objects from Wash unit.</p> <p>Keep the IPA solvent away from your skin.</p>	 <p>CONCAVE</p>
26	<p>Remove excess liquid as needed.</p> <p>Safety glasses are important when using canned air on objects.</p> <p>Compressed air can be used to remove resin and wash solvent from small spaces.</p>	<p>CAUTION: Be sure to wear your gloves and <u>safety glasses</u>.</p> <p>Canned air located in labeled cabinet below drawers.</p>	
27	<p>Gather needed equipment:</p> <ul style="list-style-type: none"> • Removal handle (cabinet) • Scraper (drawer) 	<p>The removal handle occasionally is stored in the cabinet with the resin cartridge bottles and resin tanks.</p>	

28	Insert build platform on to removal handle.	With metal side of build platform up, slide the build platform onto the removal handle.	
29	Position build platform so removed objects lands on work tray.	<p>Be sure your safety glasses are worn correctly.</p> <p>The removal handle can be set on the countertop as shown. This positions the build platform at an ideal 45 degree angle.</p>	
30	Use scraper to gently remove object from platform.	<p>Some marring of the metal plate may result when using the scraper.</p> <p>Scratches and scrapes of the metal side of the build platform are normal.</p>	

31	<p>Clean Tools Clean Build Platform</p> <ol style="list-style-type: none"> 1. Wipe resin off with paper towels. 2. Use IPA in wash bottle and paper towels to remove any tacky residue from buildplate <u>if needed</u>. 	<p>Wear gloves and safety glasses during cleaning.</p> <p>Use bucket to catch solvent and liquid resin when cleaning.</p> <p>Dispose of paper towels in trash.</p>	 <p>IPA Wash Bottle</p> <p>Resin / Solvent Clean Up</p>
32	Return build platform and tools to proper storage location.	Build platform can be left in cabinet to dry with resin tanks and resin cartridge bottles if needed.	
33	Wipe down work surfaces and tidy the workspace.	Additional cleaning supplies are located in the cabinet near sink.	 <p>Workspace Standard</p>
34	<p>Allow object to air dry fully.</p> <p>Minimum dry time is 30 minutes.</p> <p>Objects with concave or cavities may need repositioning and additional dry time.</p>	<p>Caution: Use gloves when repositioning objects. Avoid getting any liquid resin or IPA on your skin.</p>	 <p>At this point, you can always take your object home to dry. Then schedule another date and time to cure the object using the Form Cure unit.</p>

IF YOU ARE LEAVING AT THIS POINT: CLEAN UP AND CHECK OUT

<p>Clean Up</p> <ul style="list-style-type: none"> • Clean tools • Return tools to labeled storage • Return resin cartridge bottle to labeled cabinet • Return resin tank to labeled cabinet • Wipe down work areas <p>Tidy workspace</p>	<p>Additional cleaning supplies are located in lower cabinet near sink.</p>	
<p>See staff to return access key.</p> <p>Staff will:</p> <ul style="list-style-type: none"> • Check all tools are present and stored correctly. • Check workspace is clean and tidy. • Check-in access key. 	<p>Failing to return keys can result in additional fees on your library card account.</p>	
<p>IF YOU ARE STAYING TO COMPLETE YOUR PROJECT</p>		
<p>Proceed to next set of instructions:</p> <p style="text-align: center;">Part 4: Cure Object</p> <p>Cure at home option: Expose your print to natural sunlight or a UV light source at home to cure (at least 30 minutes).</p>		