

Schedule of maintenance (Form 2)

							Schedule		
System	Inspection	Maintenance ONLY if problems are noted:	Est Time	Frequency	Incidental	Resource	D	M	I
Optical window	Inspect the optical glass for contamination, including dust, resin, spots, streaks, clouding, finger prints, etc.	If possible, clean the glass optical window with dry photographic wipes (PEC*PADs). Over-cleaning and over-use of IPA can degrade the glass surface. If dry wipes are not sufficient, you may apply small amounts of IPA to the photographic wipe to help loosen up surface contaminants. Lay the wipe flat against the glass and wipe in a straight line from one side to the other slowly. Repeat in overlapping wipes until the surface is clean.	0.2 hr	Daily	Perform this check after a resin spill.	Guide	X		X
Resin tank	Use a plastic scraper to gently inspect the tank for cured resin adhered to the bottom or loosely mixed into the liquid resin.	Using the scraper, gently dislodge cured resin from the bottom of the resin tank. Do not gouge or scratch the tank window. If many resin chunks are mixed in with the liquid resin and cannot be removed manually, then the resin may need to be filtered.	0.2 hr	Daily	Perform this check after a failed print.	Guide	X		X
Resin tank	Use the wiper to sweep any liquid resin to the side and inspect the transparent bottom for signs of damage, pitting, clouding, spotting, or ripples.	Replace the resin tank if there is any sign of physical damage. If clouding, spotting, or ripples are evident, this could impact print quality. Monitor print quality and replace the resin tank if print quality declines.	0.1 hr	Daily	Perform this check if print quality issues are detected or if there are indications of resin leaking onto the optical window.	Guide	X		X
Resin tank	Carefully inspect the transparent underside of the tank for signs of contamination, finger prints, or smudges.	The underside of the bottom layer can be gently cleaned using photographic wipes (PEC*PADs) and isopropyl alcohol. Transfer the resin in the tank to a separate opaque resin-safe container before cleaning. Place the wipe flat on the underside of the tank window and wipe slowly from one side to the other in a straight line. Repeat in overlapping straight lines until the entire window is free of streaks or other optical contamination.	0.2 hr	Incidental	Perform this check before inserting a resin tank into the Form 2 or when print quality issues are detected.	Guide			X
Build platform	Inspect the build platform for liquid resin, tackiness, or cured resin on the print surface.	Use isopropyl alcohol to remove any liquid resin or tackiness. Use a scraper to remove any cured resin.	0.1 hr	Daily	Perform this check before each print.		X		X
Resin cartridge	Inspect the resin cartridge thoroughly for signs of leakage, especially around the cartridge skirt and the rubber bite valve.	Do not use the resin cartridge if a leak is noted. Place the resin cartridge in a plastic bag and contact Formlabs Services.	0.1 hr	Incidental	Perform this check before inserting a resin cartridge into the printer.	Guide			X

Resin cartridge	Check to see if the resin is more than 24 months old. The production date is located on a white sticker on the bottom of the cartridge.	Discard expired resin.	0.1 hr	Incidental	Perform this check before inserting a resin cartridge into the printer.	Guide			X
Optics	Run an optics test print. Wash and dry once completed. Inspect each printed part for signs of optical degradation. Each of the four columns should have sharp angles and the numbers should be crisp. The center object should have crisp details in the slits and vertical rods.	If uniform optical degradation is noted, this could be an indication that the internal optical surfaces need to be cleaned. Contact Formlabs Services for assistance. Be sure to provide photos of the optics print test. See the reference guide for more information. Non-uniform defects indicate a problem with the optical window or resin tank. Perform checks on both systems.	2.0 hr	Monthly	Perform this test after resin spills or extensive cleaning procedures.	Guide		X	X
Touchscreen	A cartridge is inserted but the touchscreen displays a Cartridge Missing error.	Locate the two metal chips on the underside of the resin cartridge and inspect them for damage or contamination. If the chips are intact, clean them with isopropyl alcohol and cotton swabs. Slowly lift the cartridge by 2–5 mm and see if the cartridge registers on the touchscreen. Testing a different resin cartridge will also indicate if the issue is related to the resin cartridge or the printer. Contact Formlabs Services if any damage was noted or if these steps fail to resolve the problem.	0.1 hr	Incidental	Perform this check when the corresponding error message is displayed.	Guide			X
Touchscreen	A resin tank is inserted but the touchscreen displays a Missing Tank error.	Test a different resin tank to determine if the issue is related to the original resin tank or the printer. If the issue is related to the original tank, locate the two metal chips on the underside of the resin tank and inspect them for damage or contamination. If the chips are intact, clean them with isopropyl alcohol and cotton swabs. Locate and inspect the three spring fingers located on the right side of the tank carrier. Clean these with isopropyl alcohol, wiping in the direction of the long axis. Contact Formlabs Services if any damage was noted or if these steps fail to resolve the problem.	0.1 hr	Incidental	Perform this check when the corresponding error message is displayed.	Guide			X
Software (PreForm)	Open PreForm and check for version updates. This can be found by selecting Help from the menu bar and then choosing About PreForm .	If PreForm is unable to connect to the internet, PreForm versions can be downloaded manually using the resource guide provided here.	0.1 hr	Monthly	Perform this inspection anytime your printer behaves unexpectedly or displays an error message.	Guide		X	X
Software (firmware)	Open PreForm. Expand the right panel by clicking the < button. Click the Printer Name to open the Job Setup window. Click the downward facing arrow to open the Printer List . Select the appropriate printer from the list to open the Printer Details window. Click Update .	If the printer is unable to connect to the internet, firmware versions can be downloaded manually using the resource guide provided here. Manually downloaded files can be loaded in PreForm in the Update window.	0.1 hr	Monthly	Perform this inspection anytime your printer behaves unexpectedly or displays an error message.	Guide		X	X

D=Daily, M=Monthly, I=Incidental

Contacting Formlabs Services: <https://support.formlabs.com/s/contact-support>

When contacting Formlabs Services, please provide the following information: A description of the issue, SerialName, PreForm version, firmware version, resin type, resin lot number, layer thickness, PreForm file, and any relevant photos that might help us understand the problem.