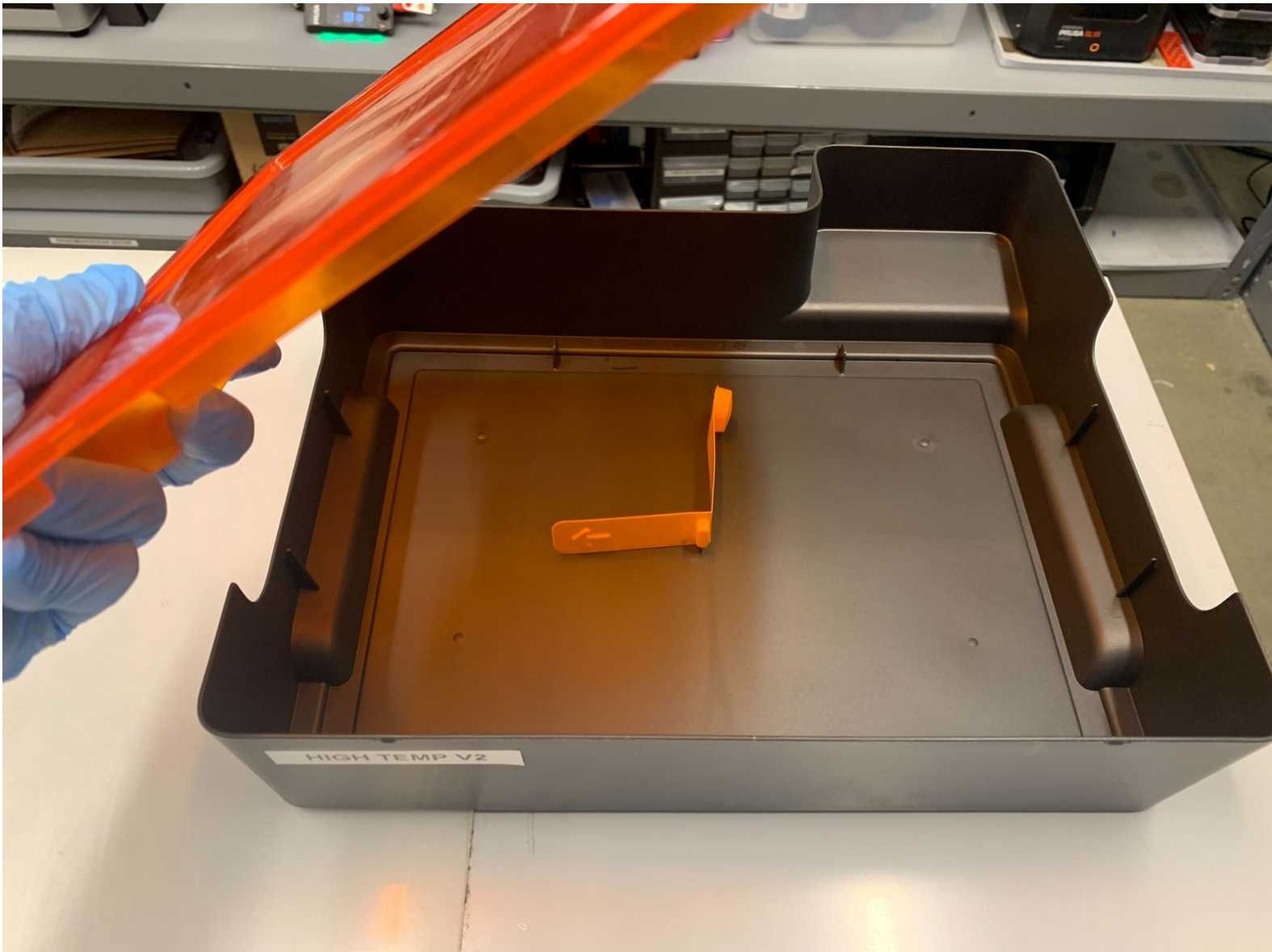# Formlabs Form 3+: Changing Resin Cartridge and Tank

A guide explaining how to change materials on the Formlabs Form 3+ printers.
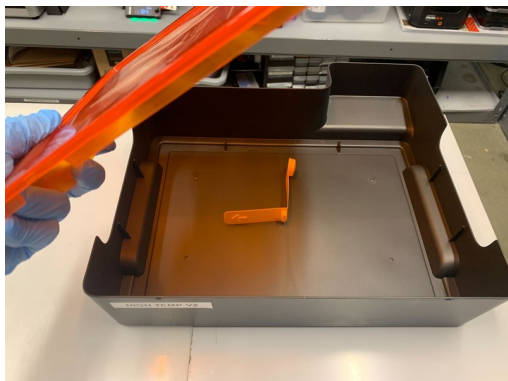
Written By: Anton Brian Preslopsky

Introduction
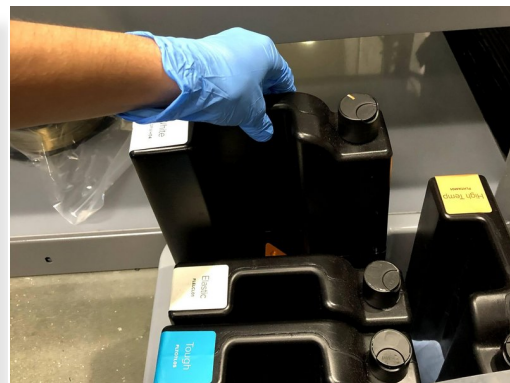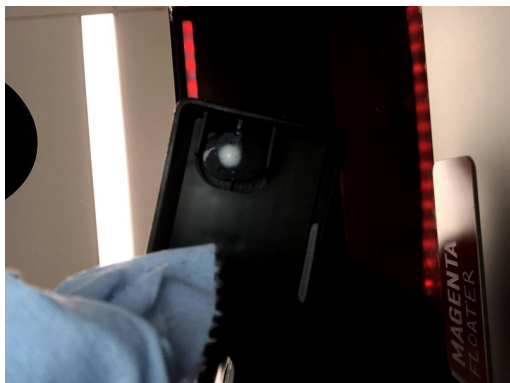
Source: [Inspecting the Tank](#)

Step 1 — Removing Cartridge

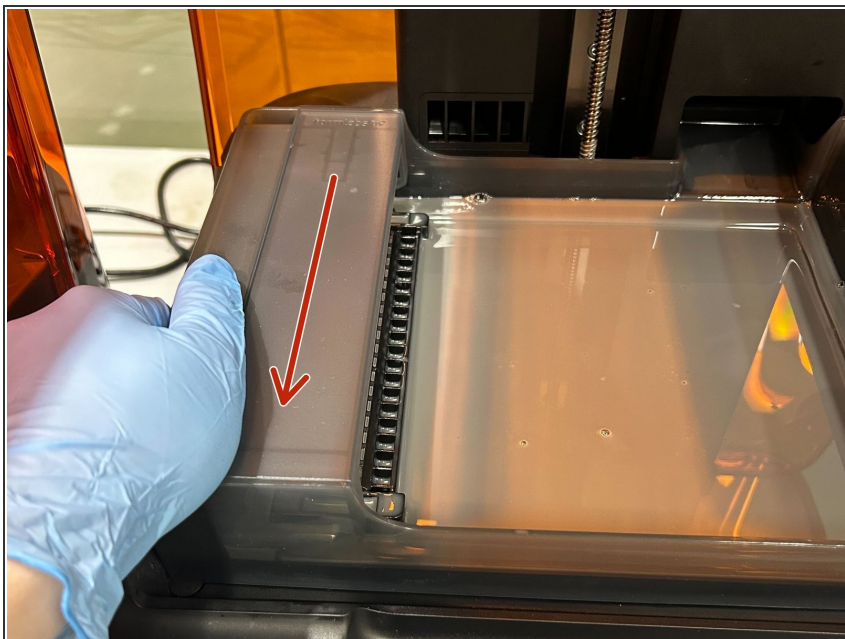⚠ Put on nitrile gloves and keep them on throughout this entire process

- Retrieve the empty resin tank box and the new resin tank box you will be putting in the machine

- Take the orange nipple cap and tank cover out of the empty box
  - ⓘ The orange nipple cap is used to keep the resin from dripping out of the nipple on the bottom of the **resin cartridge** when it is being stored

- Push down the cap of the **resin cartridge** if it is not already closed

- Pull the **resin cartridge** straight up using the indent in the back of the container

Step 2 — Storing Cartidge

- Clean the nipple on the bottom of the **resin cartridge** with a paper towel

- Place the orange nipple cover on the nipple

- Place the **resin cartridge** in the specified storage location

Step 3 — Removing Tank

- Grip both sides of the resin tank and pull backwards

- After you feel the tank pop out it should be safe to lift up and out to store

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Step 4 — Storing Tank

- Take the cover off of the resin tank box
  - Make sure the label on the cover and box match the resin tank being put in

- Gently place the tank in the box and place the cover back on

- Place the tank box in the specified storage location
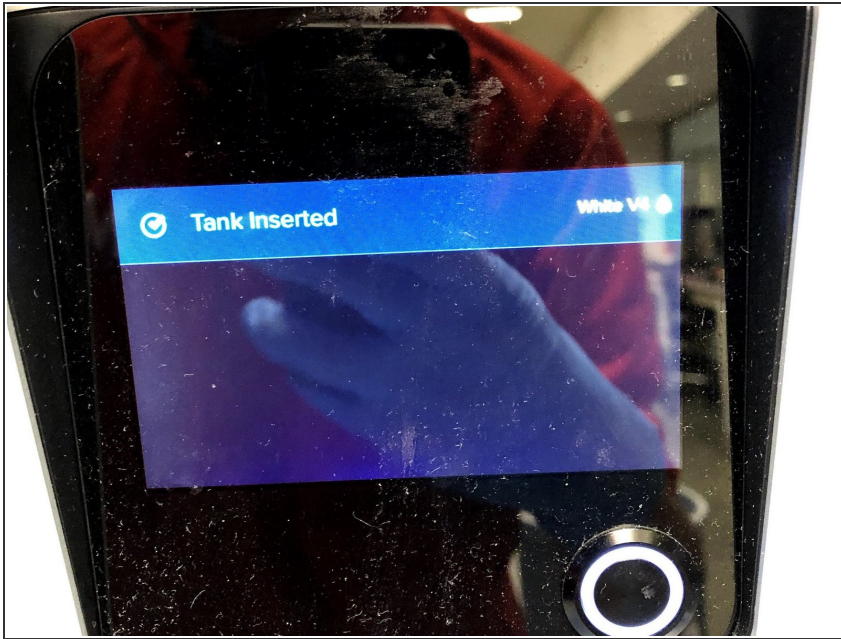
Step 5 — Opening Replacement Tank

- Open the box and remove the cover from the tank
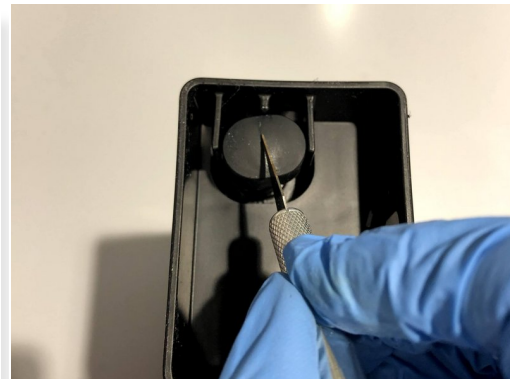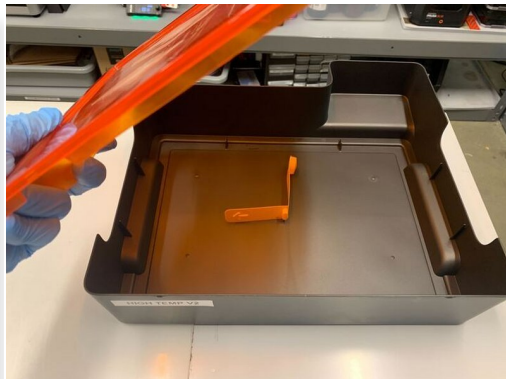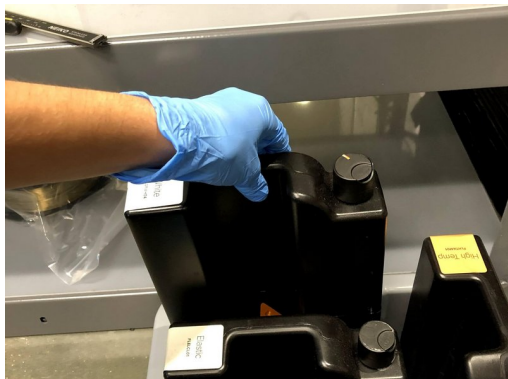
Step 6 — Installing Tank

- After confirming the integrity of the tank place it in the printer

- Line up the tracks on the bottom of the tank with their mates on the printer

- Push the tank forward until you feel the tank move into place
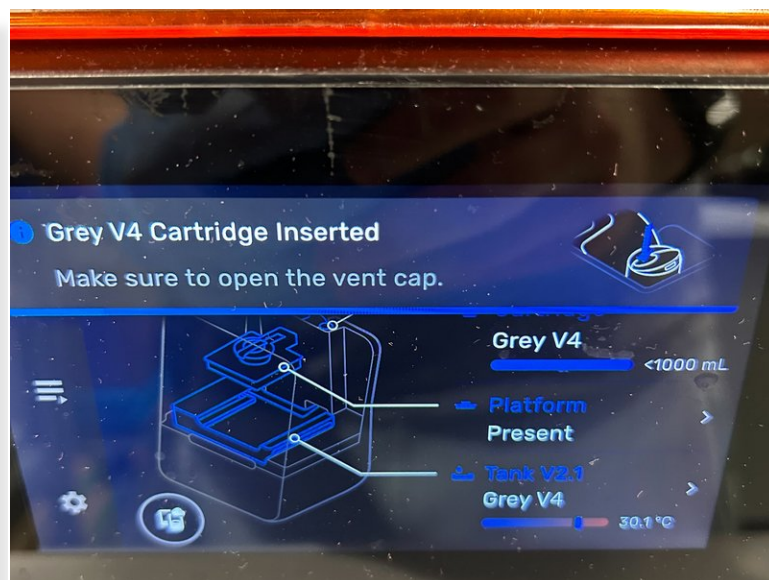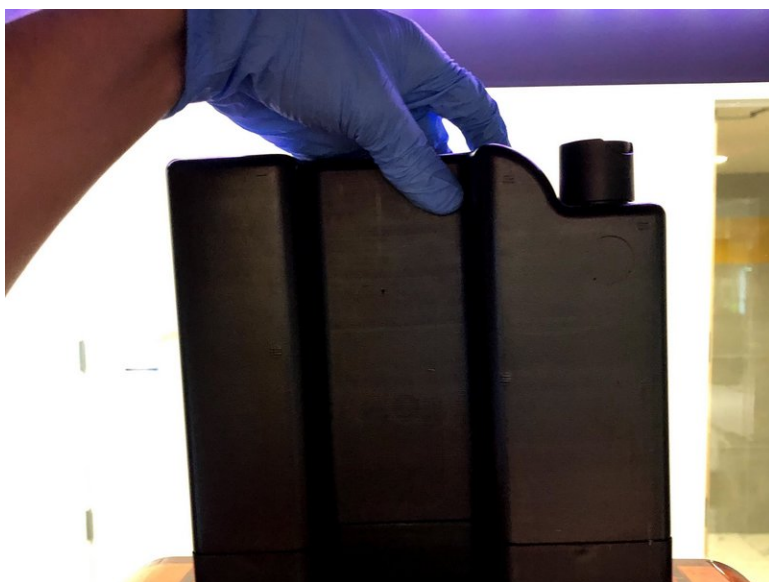
Step 7 — Installing Tank II

- The printer should automatically recognize the resin that is inside the tank from the data connector
  - ⓘ If the printer doesn't recognize the tank pull it out and try again

- ⊡ If the problem persists talk to your peers or contact [Formlabs support](#) for guidance on how to proceed

Step 8 — Retrieve Cartridge

- Retrieve the cartridge from the specified storage location
  - If the material is not there, get a new cartridge from storage

- Remove the orange tab from the bottom nipple and place it in the same box that you just got the tank out of

- ⓘ If you open a new cartridge you'll need to cut the bottom nipple so that it opens properly
  - Turn the cartridge upside down and use a razor knife to trace the pre-cut line until you're able to open the nipple and see into the cartridge

Step 9 — Inserting Cartridge

- Orient the cartridge so that the label faces away from you

- Proceed to lower the cartridge into place at the back of the machine

- The machine should automatically recognize the cartridge just like the tank so once it does you're all set