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# 1. Introduction

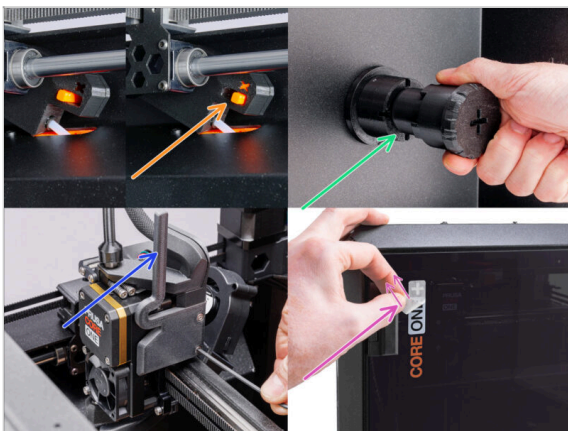


## ÉTAPE 1 Préparation du kit de mise à niveau



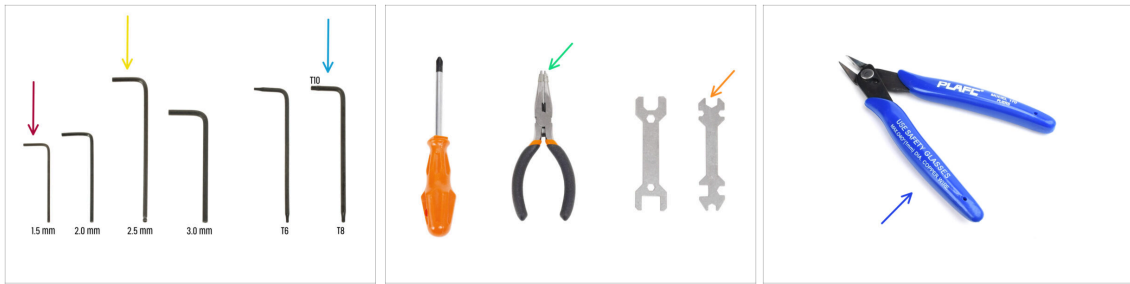
- This manual guides you through upgrading your **Prusa CORE One to CORE One+**.
- Veuillez préparer le kit de mise à niveau reçu de Prusa Research.
- ① All the required plastic parts are included in the kit.
- 📌 The printable parts are also available on Printables.

## ÉTAPE 2 Qu'est-ce qui sera mis à niveau ?



- **CORE One to CORE One + upgrade includes these changes:**
- New Filament sensor assembly
- New type of Spool Holder
- Automatic Vent control mechanism
- Finally, a new label and a serial number sticker.

## ÉTAPE 3 Tools Required



The tools needed for this upgrade are **not included in the kit**. Please use the tools that came with your original CORE One printer.



**For the following chapters, please prepare these tools:**



1.5mm Allen key



2.5mm Allen key



T10 Torx key / Screwdriver



Flush cutters



Unikey with the M3 nut-sized opening.



Une pince coupante est recommandée comme outil optionnel.

## ÉTAPE 4 Printer Preparation 1



Déchargez le filament. Visitez le menu **Filament** et sélectionnez **Décharger le filament**.



Déchargez le filament de l'imprimante.



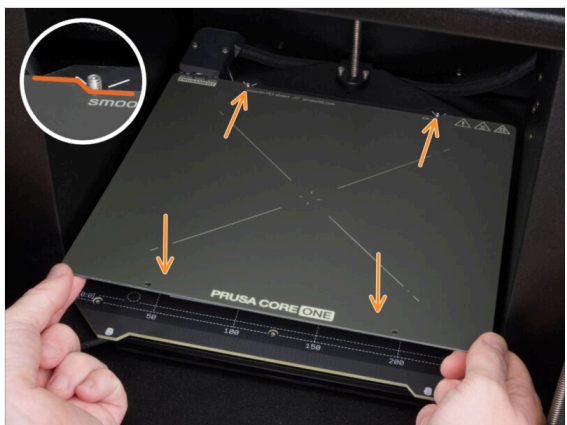
Retirez la bobine de filament de l'imprimante.

## ÉTAPE 5 Printer Preparation 2



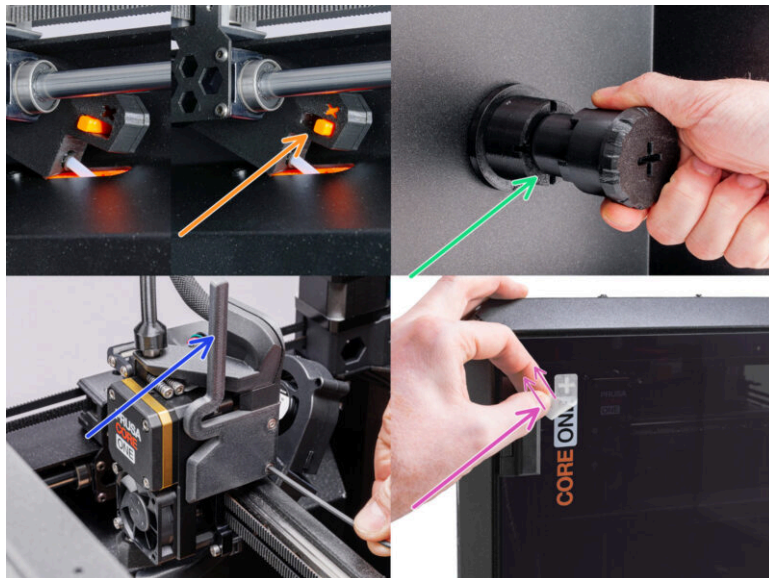
- Open the menu **Control > Move Axis > Move Z** and set it to 100mm or more.
- Attendez que le plateau chauffant descende.

## ÉTAPE 6 Printer Preparation 3



- ⚠ Avant de commencer, assurez-vous que l'imprimante a refroidi à température ambiante.
- Turn the printer off using the switch on the back.
- Disconnect the printer from power.
- Retirez la plaque en acier, si elle est encore en place.

## 2. Printer Upgrade

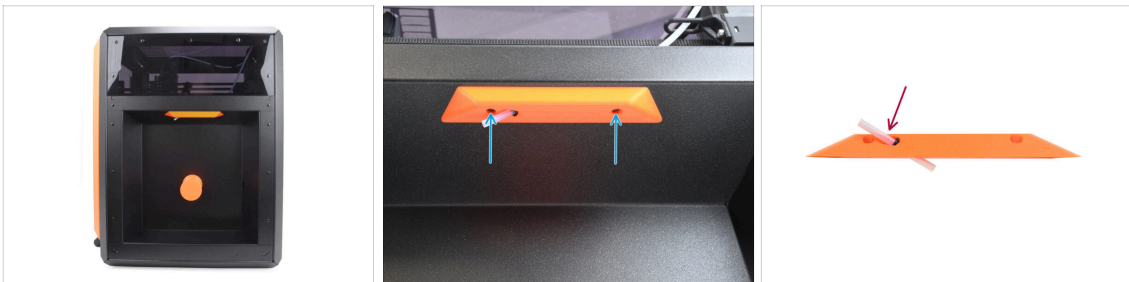


### ÉTAPE 1 Top Cover Removal



- Open the printer.
- From the inside, reach for the nylon rivet on the front left of the top cover. Push it out to unlock it.
- Remove the nylon rivet from the outside.
- Retirez les rivets en nylon restants sur le capot supérieur en utilisant la même technique.
- Retirez le capot supérieur.

### ÉTAPE 2 Handle Removal



- To start, let's move onto the right side of the printer.
- À l'aide de la clé Torx T10, retirez les deux vis de la poignée.
- Retirez la poignée avec le tube court en PTFE. Laissez le tube inséré pour l'instant.
- ① If the PTFE tube remained attached on the printer side, remove it and set it aside for later use.

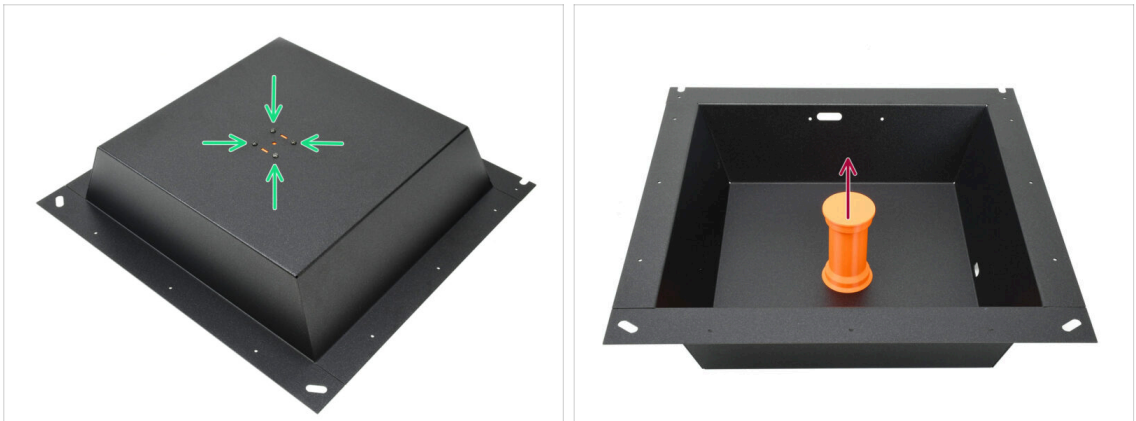


### ÉTAPE 3 Side Panel Removal



- Retirez les 11 rivets en nylon qui maintiennent le panneau latéral en tôle.  
⚠ Procédez avec précaution pour éviter de couper le rivet en morceaux.
- Retirez le panneau latéral de l'imprimante.

### ÉTAPE 4 Spool Holder Removal



- On the inner side of the side panel, remove the four M3x8rT screws.
- Retirez le support de bobine.

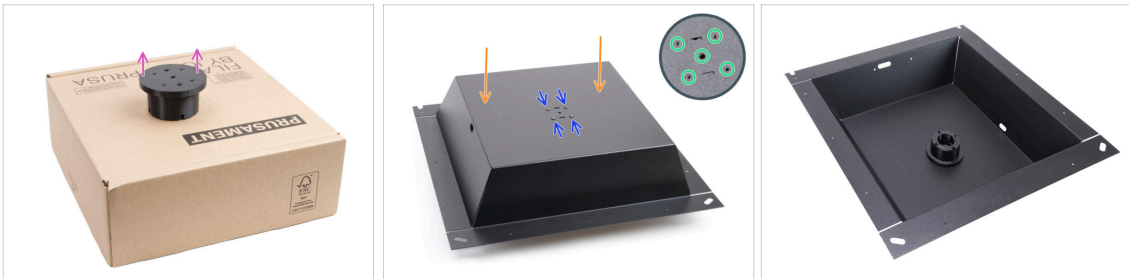
## ÉTAPE 5 Spool Holder Preparation



### For the following steps:

- CORE Spool holder (1x)
- Puck-universal (1x)
- O-ring 25x3,5mm (1x)

## ÉTAPE 6 Puck Installation



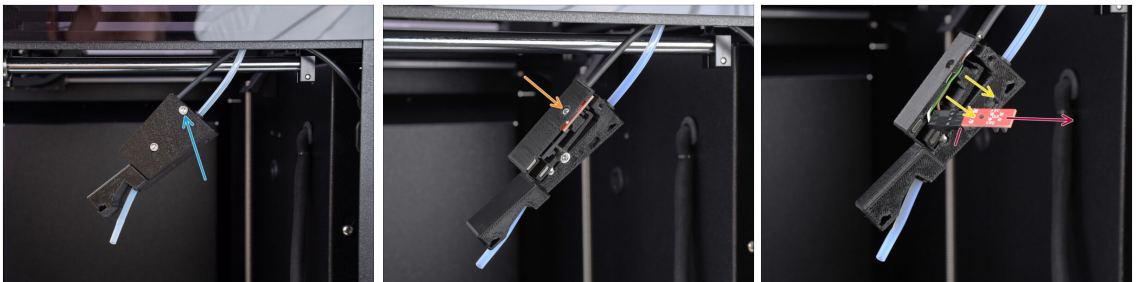
- Place the Puck-universal on a cardboard box so that the screw holes face upward.
- Carefully place the right panel onto the Puck-universal , positioning it at the center of the box.
- Align the holes in the puck with the holes in the right panel.
- Fix the puck in place using four M3x8rT screws.

## ÉTAPE 7 Spool Holder Installation



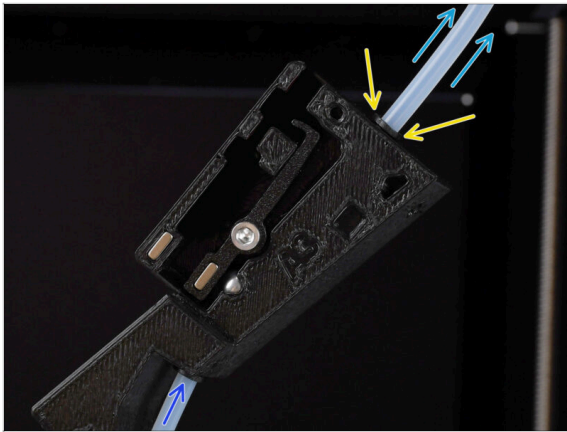
- Attach the O-ring on the spoolholder.
- Push the spoolholder into the puck part and rotate it clockwise to lock it in place.

## ÉTAPE 8 Filament Sensor Removal



- Passons maintenant à l'assemblage du capteur de filament latéral.
  - À l'aide de la clé Allen de 2,5 mm, retirez la vis M3x10 à droite.
  - À l'aide de la clé Allen de 1,5 mm, retirez la vis M2x8 qui maintient le capteur de filament.
  - Retirez le PCB du capteur de filament en le déplaçant sur le côté.
  - Remove the IR sensor with the cable still connected, away from the assembly.
- ⚠ Handle the IR sensor board by its sides only, as it is an ESD-sensitive component.

## ÉTAPE 9 Sensor Disassembly



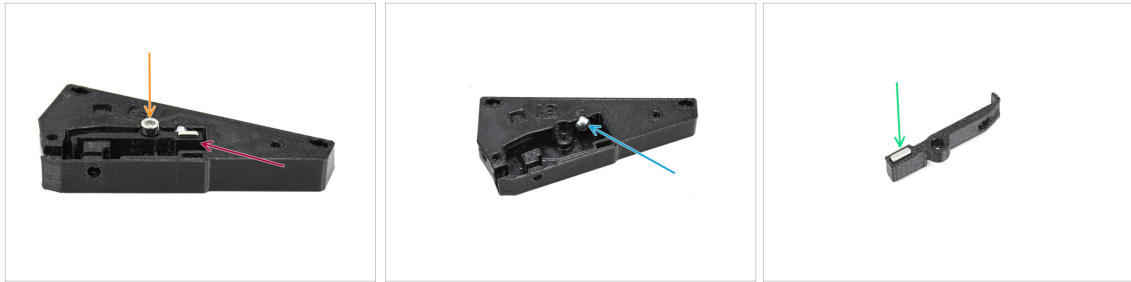
- Push the collet around the PTFE tube.
- While keeping the collet pushed in, pull by the PTFE tube in order to remove the assembly off the tube.
- Remove the collet and save it for later use.
- On some early versions of the assembly, there may also be a short input PTFE tube secured by a collet. In that case, remove both the short tube and the collet.

## ÉTAPE 10 Sensor Disassembly 2



- On the filament sensor assembly, remove the magnet from the plastic housing.
- ⚠ This may require you to use some unorthodox persuasion techniques to cut through the plastic.**
- Proceed carefully to avoid injury. Keep in mind that the magnet is very brittle and may crack easily.**
- Save the magnet for later use.

## ÉTAPE 11 Sensor Disassembly 3



- Remove the M3x10 screw holding the lever.
- Remove the lever from the assembly.
- Remove the ball and save it for later use.
- Remove the magnet from the lever and save it for later use.

## ÉTAPE 12 Sensor Preparation



- Pour les étapes suivantes, préparez :**
- Filament-sensor-body (1x)
  - Filament-sensor-lever (1x)
  - Filament-sensor-switch (1x)
  - M3x10 Screw (1x) *harvested from the printer*
  - 10x6x2mm magnet (2x) *harvested from the printer*
  - 7mm Ball (1x) *harvested from the printer*
  - M3w washer (1x)

## ÉTAPE 13 Sensor Base Assembly



- Insérez l'un des aimants dans l'ouverture dédiée du levier.
- Insérez la bille dans l'ouverture correspondante à l'intérieur de la base du capteur.
- Insérez le levier avec l'aimant dans la base.
- ❗ The part with the magnet should be positioned next to the ball.
- Fix the lever in place using the M3x10 screw with the washer on top.

## ÉTAPE 14 Lever Test



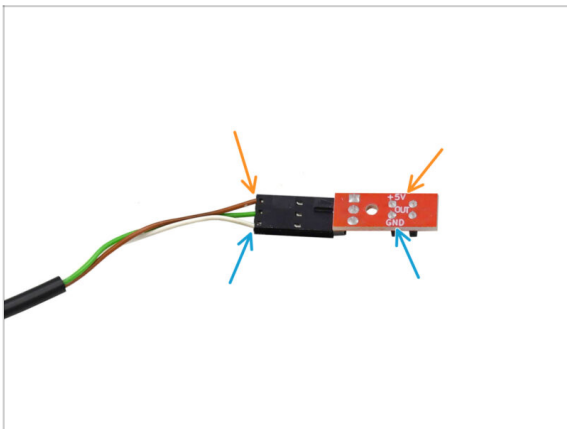
- Vérifiez que le levier peut se déplacer librement.
- ⚠ Si le levier ne bouge pas librement ou ne peut pas bouger du tout, desserrez la vis d'un quart de tour et testez à nouveau son mouvement.

## ÉTAPE 15 Switch Assembly



- Insérez le deuxième aimant 10x6x2 dans le filament-sensor-switch.
- Installez le filament-sensor-switch dans le filament-sensor-body.
- Move the filament-sensor-switch to the left end position so that the magnets face each other.
- Make sure the magnets **repel** - they should push away one from each other.
- If the magnets attract - pull toward each other, remove the magnet from the filament-sensor switch, flip its polarity, and check again.
- ⓘ Pro tip: Use one of the thin hex keys to remove the magnet.

## ÉTAPE 16 Sensor Connection Check



- On the inside of the printer, make sure the IR filament sensor is connected to the cable.
- ⚠ The cable color coding is somewhat non-standard on this printer model. Ensure the connector is plugged in correctly:
- The **brown** cable must connect to the **+5V** pin.
- The **white** cable connects to the **GND** pin.

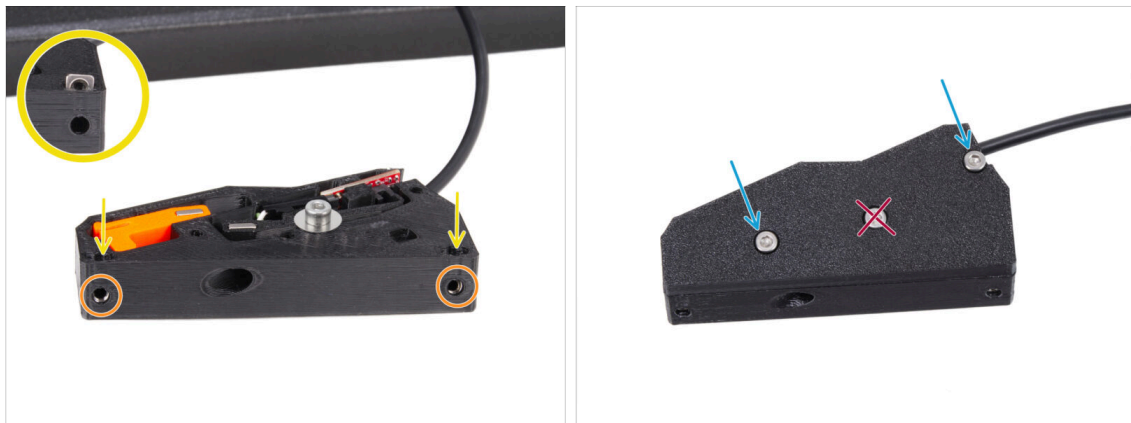


## ÉTAPE 17 IR Sensor Installation



- ◆ First, insert the cable into the groove in the assembly. The connector should be approximately in the middle of the sensor base.
- ◆ Insérez le capteur IR lui-même dans la rainure dédiée.
  - ◆ The lever must fit into the optical gate part.
- ◆ Make sure neither the connector nor the cables touch the lever, as this may prevent the sensor from functioning correctly.
- ◆ À l'aide de la clé Allen de 1,5 mm, fixez le capteur en place avec la vis M2x8.

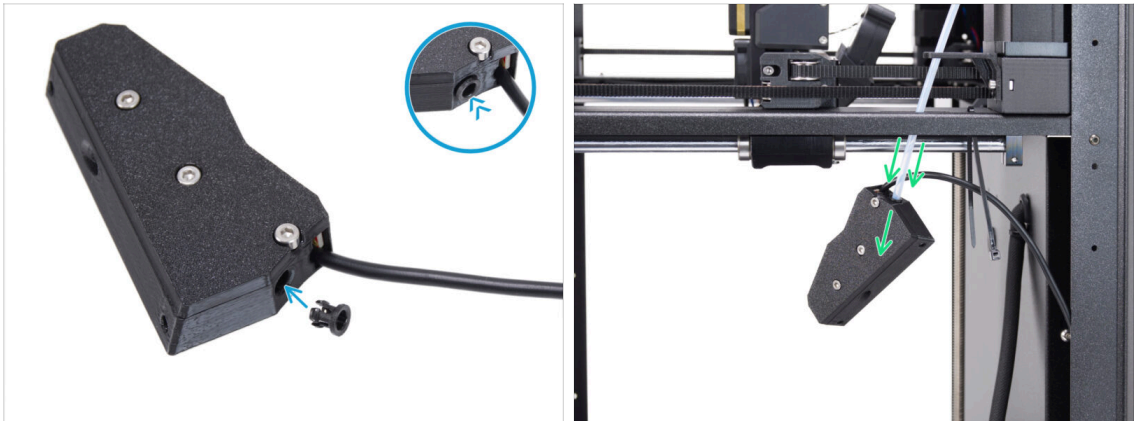
## ÉTAPE 18 Sensor Cover Installation



- ◆ Insert the two M3nS nuts into the designated openings. Use a 1.5mm Allen key to push them all the way in.
  - ◆ View the part from side to ensure the nuts align with the openings.
- ◆ Add the cover part onto the assembly and fix it in place using two M3x8 screws.
  - ⚠ Do not tighten the middle screw, as this may prevent the sensor from working.



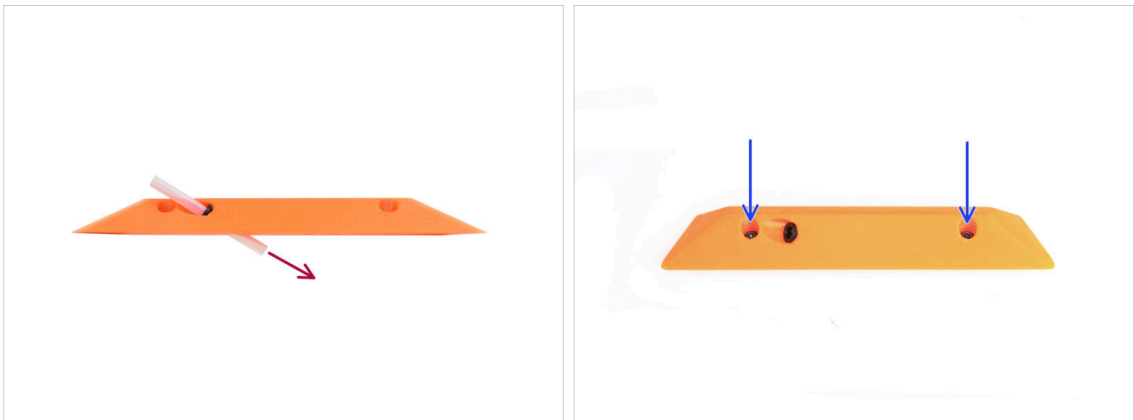
## ÉTAPE 19 Sensor Installation



- Insérez le collet dans l'ouverture marquée sur l'assemblage du capteur.
- Fixez l'assemblage du capteur sur le tube PTFE de l'imprimante.

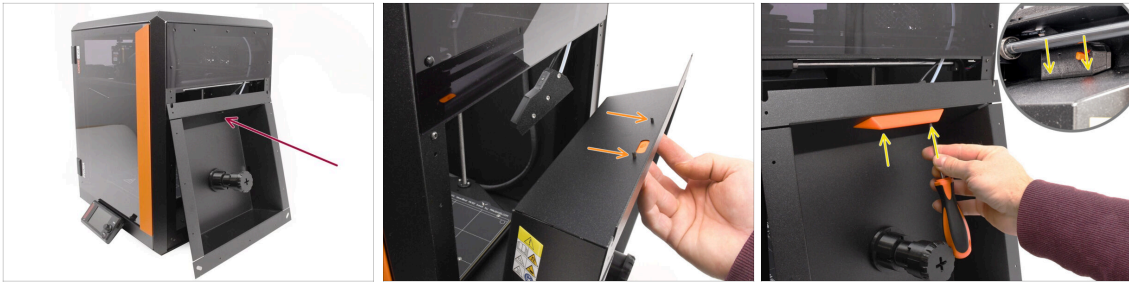
⚠ Make sure the tube is pushed all the way in.

## ÉTAPE 20 Side Handle Preparation



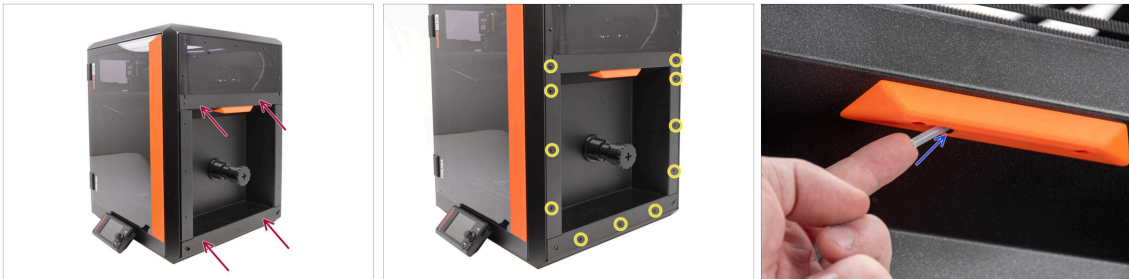
- Prenez la poignée avec le tube PTFE.
- Poussez le tube PTFE à travers la poignée et le collet, afin de le retirer.
- 📌 In the unlikely case you have the earliest version of the printer without the collet in the handle, you need to print the latest revision of the part.
- Réinstallez les deux vis M3x10rT dans la poignée.

## ÉTAPE 21 Sensor / Handle Attachment



- Move the side panel next to the printer, as shown.
  - Align the handle with the side panel so that the screws pass through. Make sure the PTFE opening is aligned with the larger hole in the panel.
  - From the inside of the printer, align the nuts in the sensor assembly with the screws and tighten both screws to secure the assembly.
- ⚠ This part is tricky. Make sure the threads are perpendicular to the screws. Space is limited inside the printer and visibility is poor, so be prepared to fiddle with the parts a bit to get everything aligned correctly.

## ÉTAPE 22 Side Panel Attachment



- Push the side panel to the inside of the printer. Be careful to prevent damaging the sensor assembly and the tube leading to it, on the inside.
- Fix it in place using the 11 Nylon rivets.
- Reinstall the short PTFE tube into the handle. Push it through the collet and make sure it is inserted all the way in.

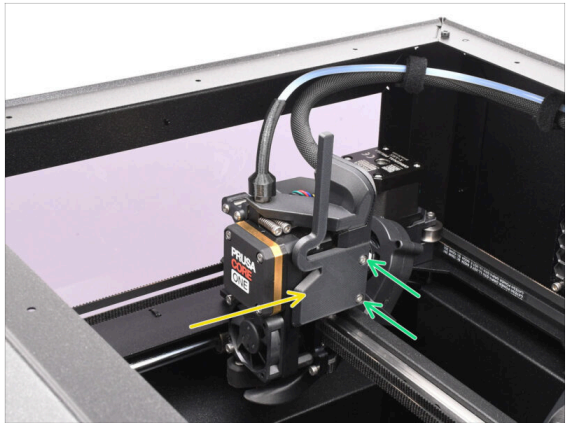
## ÉTAPE 23 Vent Lever Preparation



● Pour les étapes suivantes, préparez :

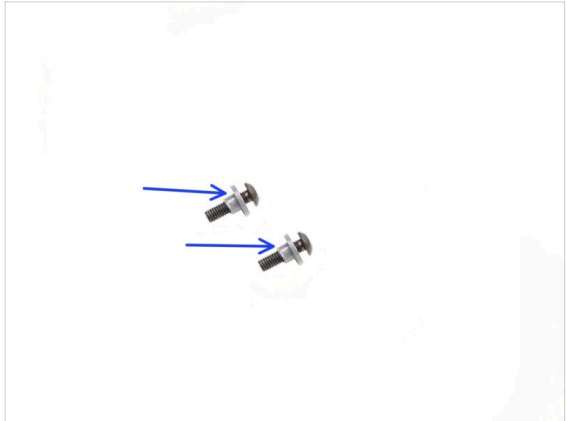
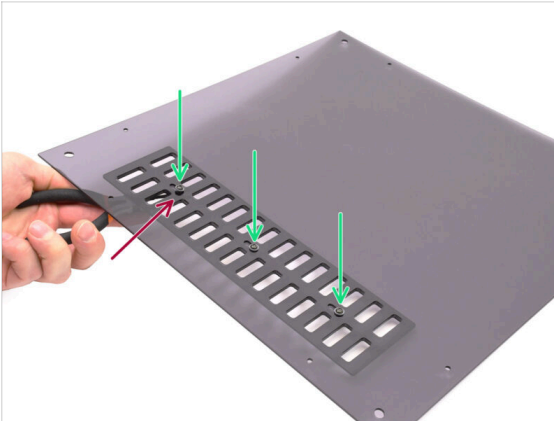
● Cover Right Lever (1x)

## ÉTAPE 24 Vent Lever Installation



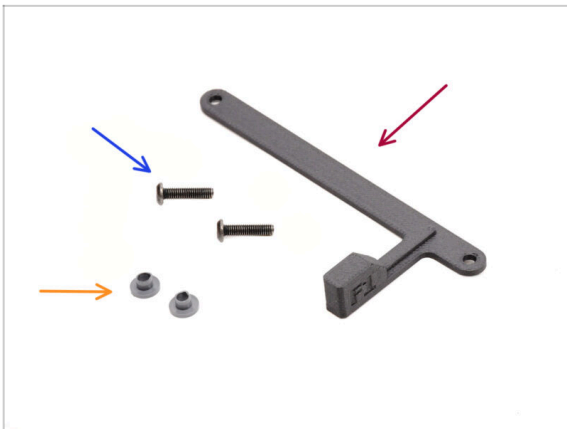
- Let's move to the inside of the printer.
- Undo the two M3x6 screws on the side of the print head and remove the cover on the right.
- Install the updated Cover-Right-Lever part instead.
- Fix it in place using the same two M3x6 screws.

## ÉTAPE 25 Top Cover Disassembly



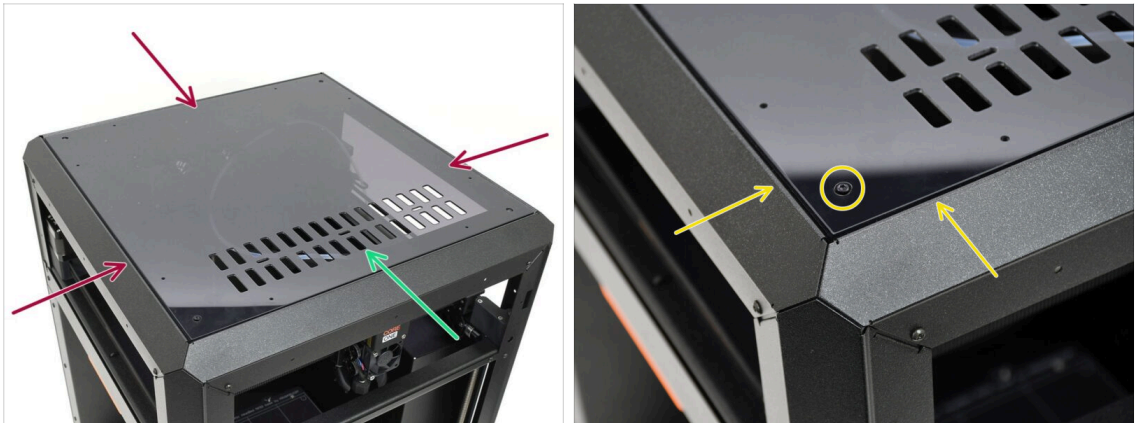
- Take the top cover you have removed earlier.
- Using the needle-nose pliers, reach for the M3nN nuts on the bottom of the cover.
- While holding the nuts, remove the three M3x10rT screws on top.
- Remove the plastic insulating inserts from **two** of the screws.

## ÉTAPE 26 Vent Block Preparation



- **Pour les étapes suivantes, préparez :**
- Upg-vent-block
- M3x12rT screw (2x)
- Insulating insert (2x) *previously removed*

## ÉTAPE 27 Top Cover Test Fit



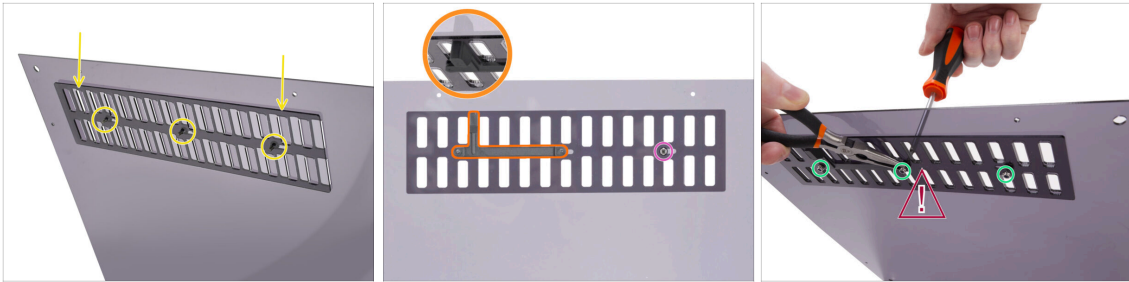
-  The cover isn't symmetrical. Make sure it is oriented the same way as when installed in the printer.
-  Maintain the cover in this orientation.
-  If oriented correctly, the cover must align with the recess, and the bolt heads in the corners will fit into the cutouts.

## ÉTAPE 28 Top Cover Assembly



-  Run two of the longer M3x12rT screws through the insulating inserts.
  -  Assurez-vous que la partie à bride de l'insert est orientée vers la tête de vis.
-  Insérez les vis avec les inserts à travers les trois ouvertures dans l'évent.
-  Insert the previously removed M3x10rT screw into the right slot.
-  Orient the vent cover so that the screw holes align with the left side of the rectangular openings.

## ÉTAPE 29 Top Cover Assembly 2



- ✦ Aligned le capot d'aération avec les extrémités des vis situées en bas.
  - ✦ Serrez à la main l'écrou M3nN le plus à droite sur la vis M3x12rT pour fixer le capot en place.
  - ✦ Attach the Upg-vent-block to the ventilation cover. Make sure that it is positioned correctly, as seen in the picture.
  - ✦ Secure the Upg-vent-block to the ventilation cover with M3nN nuts. Use the needle-nose pliers to hold the nuts while tightening the screws.
- ⚠ The screws should be tightened just enough to remove the slack, remaining slightly loose so the ventilation cover can open and close properly.

## ÉTAPE 30 Top Cover Installation



- ✦ Essayez de déplacer l'une des trois vis avec votre main.
- ⓘ The vent openings should open and close smoothly without any effort.
- ⚠ If the movement is difficult, loosen the screw that is causing the restriction.
- ✦ Align the cover with the recess on the printer, making sure the vent faces forward.
- ✦ Fixez le capot au cadre à l'aide de quatre rivets en nylon dans les ouvertures marquées.
- 📌 Il y a huit ouvertures, mais quatre rivets devraient suffire.



### 3. Final Setup



## ÉTAPE 1 Plus Sticker Preparation



- Pour les étapes suivantes, préparez :
- Autocollant du plexi de la CORE One+

## ÉTAPE 2 Plus Sticker Installation



- Peel off the sticker from the backing layer.
- Align the sticker with the **ONE** sign on the printer's front door. Press firmly to secure the sticker in place.
- Carefully peel off the transparent layer, making sure the + symbol stays adhered and does not lift off.



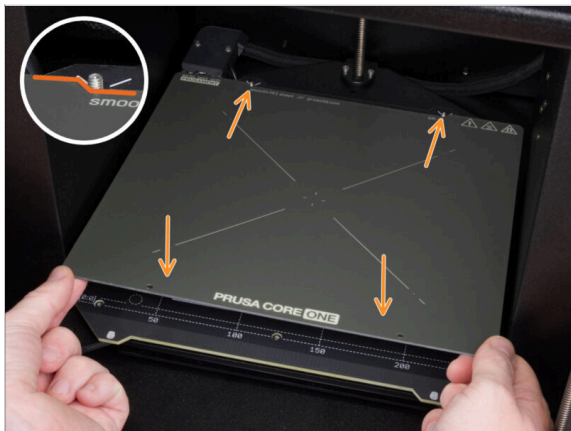
#### ÉTAPE 3 S/N Sticker



⚠ Cette étape est nécessaire pour fournir une garantie ! Ne jetez pas l'étiquette !

- ✦ Peel off the old SN label on the back of the printer and replace it with the new CORE One + sticker.

#### ÉTAPE 4 Print Sheet

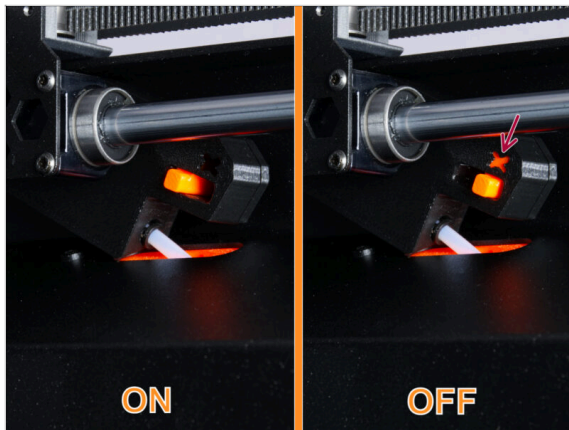


- ✦ Reinstall the print sheet.

⚠ **Make sure there is nothing on the heatbed.** The heatbed must be clean. Any dirt can damage the surface of both the heatbed and the print sheet.

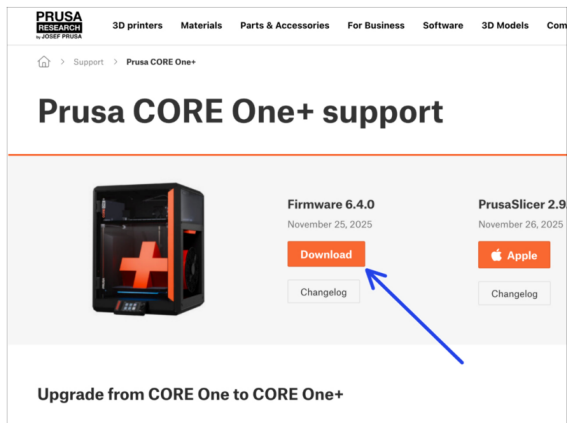
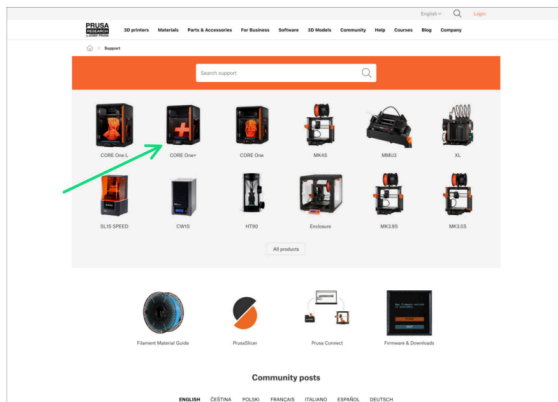
- ✦ **Attach the sheet by first aligning the rear cutout with the locking pins on the back of the heated bed.** Hold the sheet by the front two corners and slowly lay it down onto the heated bed - **watch your fingers!**
- ✦ Keep the **print sheet** clean for optimum performance.
- ✦ #1 cause of prints detaching from the print surface is a greasy print sheet. **Use IPA (Isopropyl alcohol) to degrease it** if you have touched its surface before.

## ÉTAPE 5 Filament Sensor Switch



- Check that the filament sensor switch is set to the **ON position**.
- The OFF position can be identified by the orange part of the sliding switch visible through the “X” symbol on the switch.

## ÉTAPE 6 Firmware Download



- Nous devons mettre à jour le firmware.
- i** The CORE One+ requires firmware version 6.4.0 or newer.
- Visit the **CORE One+ support page on [help.prusa3d.com](https://help.prusa3d.com)**.
- Download the latest firmware file (.bbf).  
Save the file onto a USB drive.

## ÉTAPE 7 Firmware Flash



- ✿ Insert the USB drive with the firmware file into the printer.
- ✿ Connect the power cable.
- ✿ Turn the printer on using the switch on the back.
- ✿ Once the "New firmware available" screen appears, select the **FLASH** option.

## ÉTAPE 8 Selftest



- ✿ After finishing the upgrade, we recommend visiting the menu **Control -> Calibrations & Tests** and run the Selftest from the start.

## ÉTAPE 9 Chamber Vent Settings



- ◆ To enable automatic opening of the top grille, go to **Settings -> Hardware -> Chamber Vent Control** and set it to **Auto**.

## ÉTAPE 10 Finish



- 📌 Congratulations! Your upgraded CORE One + is ready to roll!
- ◆ Happy printing!

# Manual changelog



## ÉTAPE 1 Version history



- **Versions of the Prusa CORE One to CORE One+ upgrade manual:**
- 12/2025 - Initial version 1.00

[illegible]





[illegible]



[illegible]

