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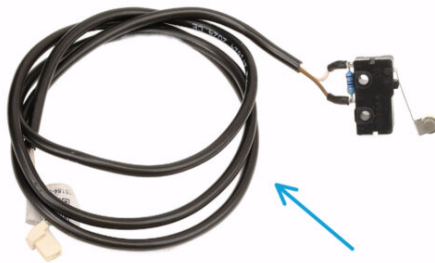
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# How to replace the door sensor (CORE One)



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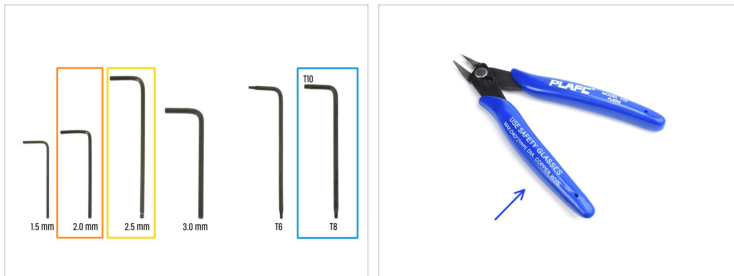


## STEP 1 Introduction



- ◆ This guide will take you through the Door Sensor replacement on your Prusa **CORE One**.
- ◆ All necessary parts are available in our eshop [prusa3d.com](https://prusa3d.com).
- 📌 Note that you have to be logged in to have access to the spare parts section.
- ⚠ **Warning: You will be handling metal sheets in this guide. Be careful!**

## STEP 2 Tools necessary for this guide



### ◆ Please prepare tools for this guide:

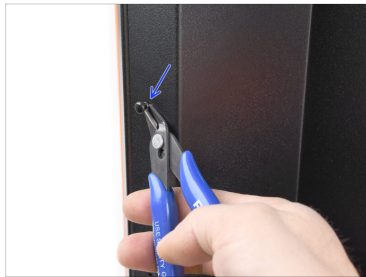
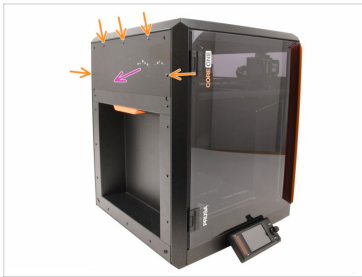
- ◆ 2mm Allen key
- ◆ 2.5mm Allen key
- ◆ T10 Torx key
- ◆ Flush cutters are recommended as an optional tool.

## STEP 3 Printer Preparation



- ◆ On the printer, visit the menu **Control** and trigger the **Auto Home**.
- ◆ Turn the printer off using the switch on the back.
- ◆ Disconnect the printer from power.

## STEP 4 Side Cover Removal



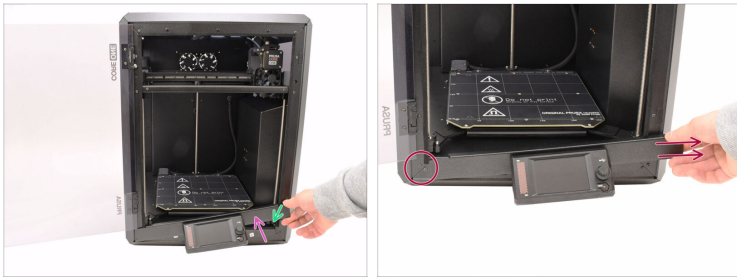
- Remove the five Nylon rivets holding the plastic side cover.
- We recommend using flush cutters to lift the top part of the rivet, unlocking it. Then, remove the bottom part of the rivet.
- Remove the plastic side cover.

## STEP 5 Side Panel Removal



- Remove the marked Nylon rivets holding the Side Sheet Metal Panel.
- Remove the panel.

## STEP 6 Front Panel Disengage



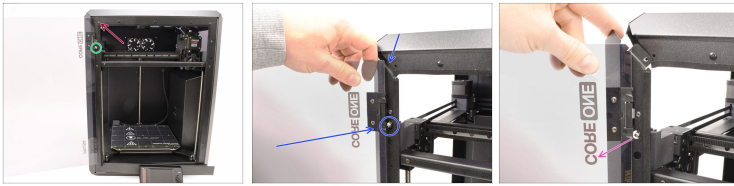
- ◆ Lift the front sheet metal panel with the LCD upward on the right side to unhook it from the corner profile.
- ⓘ The panel is held by magnets.
- ◆ Once unhooked from the corner profile, pull the panel forward slightly to keep it unhooked.
- ⚠ **Be very careful when moving the front panel assembly, as there are cables connected to the LCD. Ensure you do not disconnect or damage them!**
- ◆ Move the front panel assembly to the right. Move it just so that you gain access to the two screws on the left.

## STEP 7 Corner Profile Removal (Part 1)



- On the side of the printer, remove the three screws holding the corner profile.
- From the front of the printer, **remove only the two marked screws** securing the corner profile.

## STEP 8 Corner Profile Removal (Part 2)



- ◆ Leave the top screw holding the corner profile in place for now.
- ◆ Notice the door switch lever poking through an opening in the profile.
- ◆ Hold the printer's door with one hand while removing the top screw holding the profile. After removing the screw, carefully unhook the corner profile from the top part, **ensuring the door switch is not damaged during the process.**
- ◆ Then, remove the corner profile along with the door, ensuring the lever of the door switch is not damaged.

## STEP 9 Back Cover Removal (Part 1)



- On the inside of the printer, remove the two screws holding the back cover.
- On the back of the printer, slide the center cover downwards.
  - 📌 If it's difficult to move, use a screwdriver as a lever through the opening to assist.
- Ensure the four hooks on top of the cover are disengaged from the metal chassis.

## STEP 10 Back Cover Removal (Part 2)



- Move the cover slightly towards the back.
- Pull the bottom part of the cover outward while tilting the top toward the printer. This will unhook it from the cable bundle behind.

## STEP 11 xBuddy Cover Removal



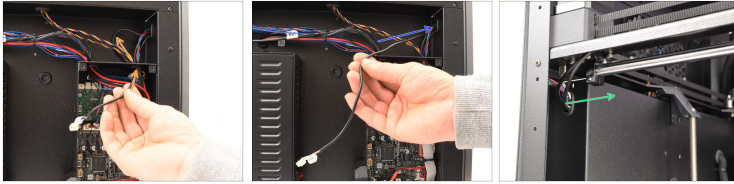
- Remove the six screws holding the xBuddy cover.
- Remove the cover by sliding it out.

## STEP 12 Cable Disconnecting



- Locate the door switch cable connected to the A\_TEMP connector on the xBuddy board.
- Disconnect the cable from the connector.
  - ⚠ Note that the connector has a safety latch that must be pressed to disconnect it.
- Carefully cut the zip ties securing the cable bundle where the door switch connector cable is located.
  - ⚠ Proceed with extreme caution to avoid damaging any cables.

## STEP 13 Cable Removal



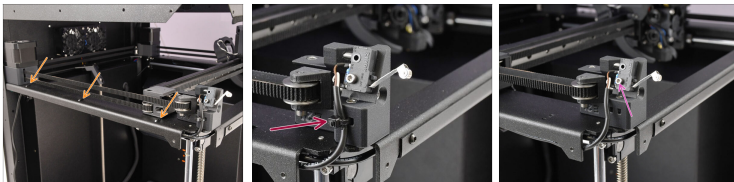
- 🟠 Guide the connector through the opening on top of the xBuddy cover.
- 🟠 Guide the cable through the opening to the inside of the printer.
- 🟢 From the inside of the printer, pull the cable until it goes through.



**Be careful. Do not damage the connector!**

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## STEP 14 Sensor Removal



- 🟠 Cut off the three zip-ties holding the cables to the Core XY assembly.
- 🟠 Cut off the zip-tie holding the cable just below the door sensor.
- 🟡 Using the 2mm Allen key, remove the M2.5x10 screw. Then remove the sensor.

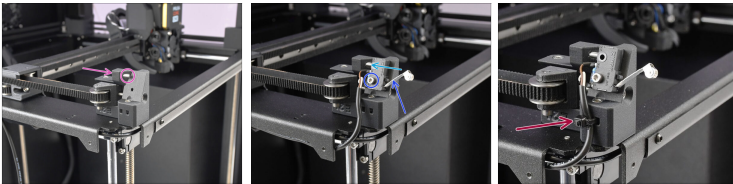
## STEP 15 Parts Preparation: Door Sensor



◆ For the following steps, please prepare:

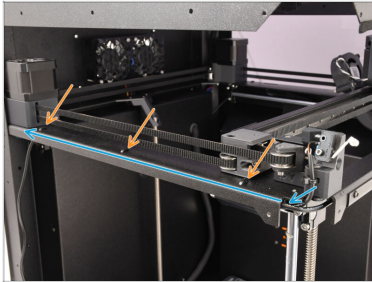
- ◆ New Door Sensor (1x)

## STEP 16 Sensor Installation




- ◆ Slightly **loosen** the marked sensor calibration bolt. Two turns should be enough.
  - ◆ Attach the new door sensor to the marked location, ensuring the lever is pointing upward. Fix the sensor in place using the **M2.5x10 screw** in the bottom opening only.
  - ◆ **While tightening** the screw, push the sensor slightly towards the calibration screw in the back.
  - ◆ Secure the sensor cable to the printed part with a zip-tie, then trim the excess zip-tie.
- (i) Make sure to leave some slack in the cable near the sensor body.

## STEP 17 Cable Attachment



- ◆ Guide the sensor cable together with the WLED cable under the Core XY metal profile.
- ◆ Secure the cable bundle under the metal profile using zip-ties in the marked spots. Trim any excess zip-tie.

 **Proceed carefully to prevent damaging the cables!**

## STEP 18 Cable Guidance



- ◆ Guide the cable through the opening toward the back of the printer.
- ◆ Gently pull the cable out on the other side.
- ◆ Guide the cable into the xBuddy box.

## STEP 19 Cable Connection



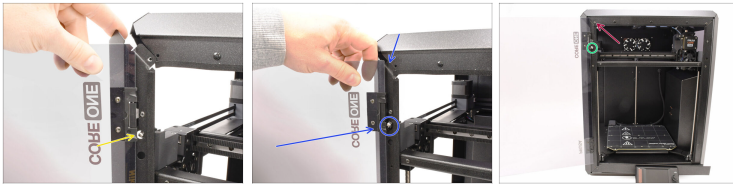
- Secure the cable bundle to the hooks inside the xBuddy box using two zip-ties.
  - ⚠️ **Avoid overtightening the zip-ties to prevent damage to the cables.**
- Plug the door sensor cable to the connector labeled A\_TEMP on the xBuddy board.
- Attach the xBuddy box cover using the 6 M3x4rT screws.

## STEP 20 Back Cover Installation



- Cover the cables with the sheet metal part, making sure none of the cables is getting pinched.
- Push the cover up, so that the four tabs engage into the recesses.
- While pushing the cover up, fix it in place using two M3x4bT screws from the inside of the printer.

## STEP 21 Corner Profile Installation



- ◆ Now, reattach the corner profile with the door.
  - ⚠ We need to align the profile without damaging the door sensor lever.
- ◆ First, position the tabs with the threaded openings **behind** the top profiles on both the front as well as on the side. While moving the profile, keep a close eye on the door switch!!
- ◆ Fix the profile using the top M3x4bT screw only, for now.
- ◆ Push the switch lever to verify if it fits the opening and clicks correctly, when pressed.

## STEP 22 Corner Profile Attachment



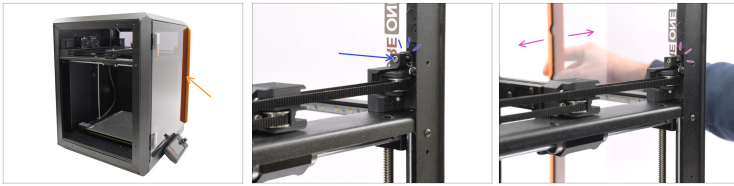
- Fix the corner profile in place using the three M3x4bT screws on the left side.
- ⚠ Ensure the tab on top of the corner profile is positioned behind the top part of the printer's frame, as seen in the picture.
- Fix the corner profile using two M3x4bT screws on the front.

## STEP 23 Front Panel Attachment



- ◆ Move the front panel to the left, until it engages into the corner profile.
- ⚠ **There are cables connected to the LCD. Ensure you do not disconnect or damage them!**
- ◆ With the right side of the panel lifted, push it toward the printer until it is flush with the front of the printer.
- ◆ Then, move the right side of the panel down to engage it into the corner profile on the right side.
- ◆ Align the front panel with the printer's frame.

## STEP 24 Sensor Initial Calibration



- Close the printer's door.
  - ⚠ **When closing the door, the sensor should make an audible click, indicating it has been activated.**
  - If the sensor does not click, start tightening the calibration screw slowly, until the sensor clicks.
  - Test the sensor by opening and closing the door. It should click each time the door closes.

## STEP 25 Side Cover Installation



- Add the side sheet metal panel to the printer and align it with the opening.
- Secure the panel in place with 11 Nylon rivets in the marked spots.
- Add the plastic cover onto the top part and align it with the opening.
- Fix it in place using 5 Nylon rivets.

## STEP 26 Sensor Test



- ✦ Connect the printer to power.
- ✦ Turn the printer on using the switch on the back.
- ✦ On the printer's display, navigate to the menu **Info > Sensor Info > Door Sensor**
  - ✦ Repeatedly open and close the printer's door and check if the reading on the display changes accordingly between the **open** and **closed** states.

## STEP 27 Finish



- ✦ Congratulations. Your door sensor has been successfully replaced.
  - ✦ If further adjustment is needed, you can access the door sensor calibration screw from inside the printer.



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