

Tabla de Contenido

1. Introduction	3
Paso 1 - Preparando el kit de actualización	4
Paso 2 - What will be upgraded?	4
Paso 3 - Tools Required	5
Paso 4 - Printer Preparation 1	5
Paso 5 - Printer Preparation 2	6
Paso 6 - Printer Preparation 3	6
2. Printer Upgrade	7
Paso 1 - Top Cover Removal	8
Paso 2 - Handle Removal	8
Paso 3 - Side Panel Removal	9
Paso 4 - Spool Holder Removal	9
Paso 5 - Spool Holder Preparation	10
Paso 6 - Puck Installation	10
Paso 7 - Spool Holder Installation	11
Paso 8 - Filament Sensor Removal	11
Paso 9 - Sensor Disassembly	12
Paso 10 - Sensor Disassembly 2	12
Paso 11 - Sensor Disassembly 3	13
Paso 12 - Sensor Preparation	13
Paso 13 - Sensor Base Assembly	14
Paso 14 - Lever Test	14
Paso 15 - Switch Assembly	15
Paso 16 - Sensor Connection Check	15
Paso 17 - IR Sensor Installation	16
Paso 18 - Sensor Cover Installation	16
Paso 19 - Sensor Installation	17
Paso 20 - Side Handle Preparation	17
Paso 21 - Sensor / Handle Attachment	18
Paso 22 - Side Panel Attachment	18
Paso 23 - Vent Lever Preparation	19
Paso 24 - Vent Lever Installation	19
Paso 25 - Top Cover Disassembly	20
Paso 26 - Vent Block Preparation	20
Paso 27 - Top Cover Test Fit	21
Paso 28 - Top Cover Assembly	21
Paso 29 - Top Cover Assembly 2	22
Paso 30 - Top Cover Installation	22
3. Final Setup	23
Paso 1 - Preparación Pegatina Plus	24
Paso 2 - Instalación Pegatina Plus	24
Paso 3 - Pegatina S/N	25
Paso 4 - Lámina de Impresión	25
Paso 5 - Interruptor Sensor Filamento	26
Paso 6 - Descarga del firmware	26
Paso 7 - Flasheo de Firmware	27
Paso 8 - Selftest	27
Paso 9 - Ajustes Ventilación Cámara	28
Paso 10 - Terminando	28
Manual changelog	29

Paso 1 - Version history	30
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1. Introduction

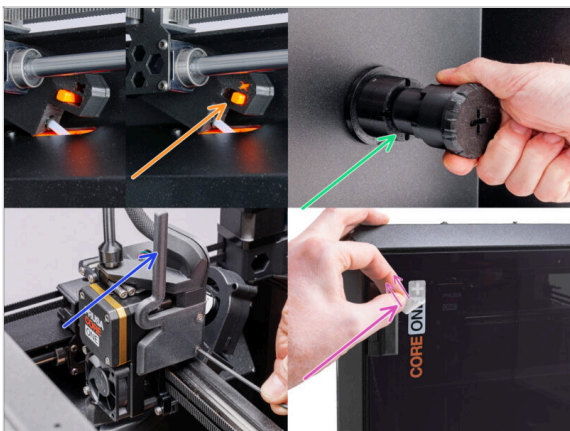


PASO 1 Preparando el kit de actualización



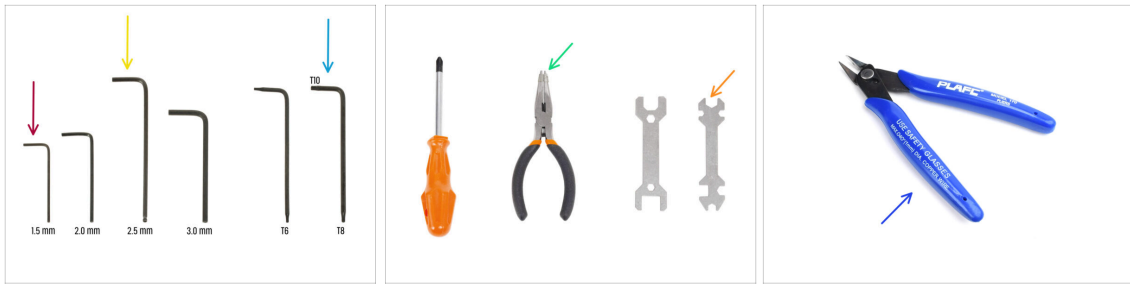
- ◆ This manual guides you through upgrading your **Prusa CORE One to CORE One+**.
- ◆ Por favor, prepara el kit de actualización recibido de Prusa Research.
- ① All the required plastic parts are included in the kit.
- 📌 The printable parts are also available on Printables.

PASO 2 What will be upgraded?



- ◆ **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.

PASO 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.



Se recomienda el uso de alicates de corte plano como herramienta opcional.

PASO 4 Printer Preparation 1



Unload the filament. Visit the menu **Filament** and select **Unload filament**.



Descarga el filamento de la impresora.



Retira la bobina de filamento de la impresora.

PASO 5 Printer Preparation 2



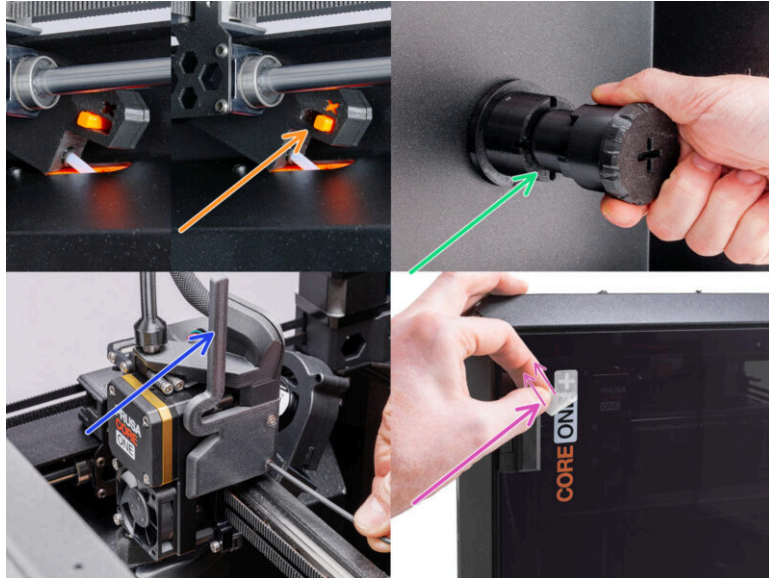
- Open the menu **Control > Move Axis > Move Z** and set it to 100mm or more.
- Espera hasta que la base calefactable se mueva hacia abajo.

PASO 6 Printer Preparation 3



- ⚠ Before you begin, make sure the **printer has cooled down** to ambient temperature.
- Turn the printer off using the switch on the back.
- Disconnect the printer from power.
- Retira la lámina de acero, en caso de que aún esté colocada.

2. Printer Upgrade

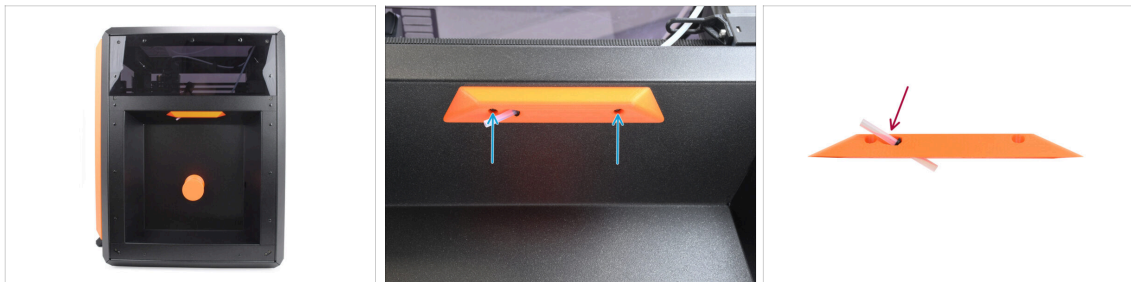


PASO 1 Top Cover Removal



- 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.
- Retira los remaches de nylon restantes de la cubierta superior utilizando la misma técnica.
- Retira la cubierta superior.

PASO 2 Handle Removal



- To start, let's move onto the right side of the printer.
- Using the T10 Torx key, remove both screws from the handle.
- Remove the handle together with the short PTFE tube. Leave the tube inserted, for now.
- ① If the PTFE tube remained attached on the printer side, remove it and set it aside for later use.

PASO 3 Side Panel Removal



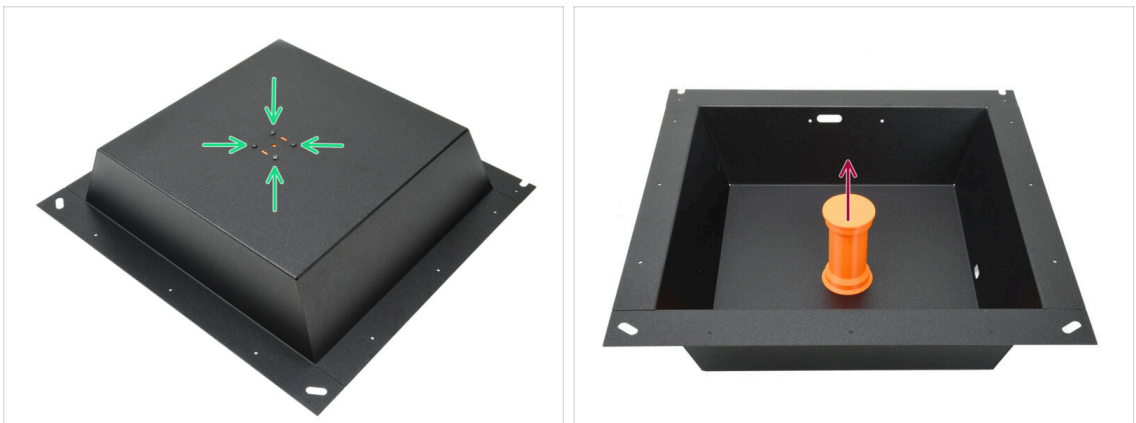
- Remove 11 Nylon rivets holding the sheet metal side panel.



Proceed carefully to avoid cutting the rivet into pieces.

- Remove the side panel from the printer.

PASO 4 Spool Holder Removal



- On the inner side of the side panel, remove the four M3x8rT screws.

- Retire el portabobinas.

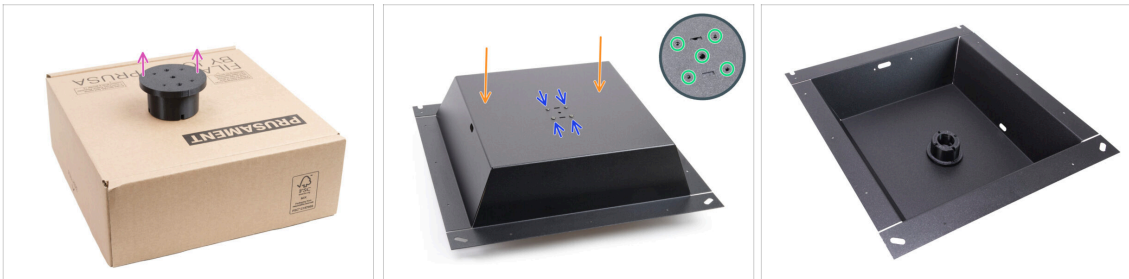
PASO 5 Spool Holder Preparation



For the following steps:

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

PASO 6 Puck Installation



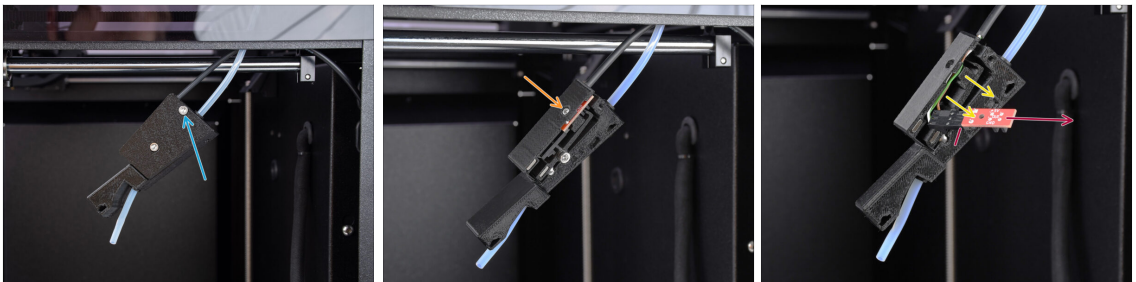
- Place the Puck-universal on a cardboard box so that the screw holes face upward.
- Carefully place the right panel onto the Puck-universal, positioning it at the center of the box.
- Align the holes in the puck with the holes in the right panel.
- Fix the puck in place using four M3x8rT screws.

PASO 7 Spool Holder Installation



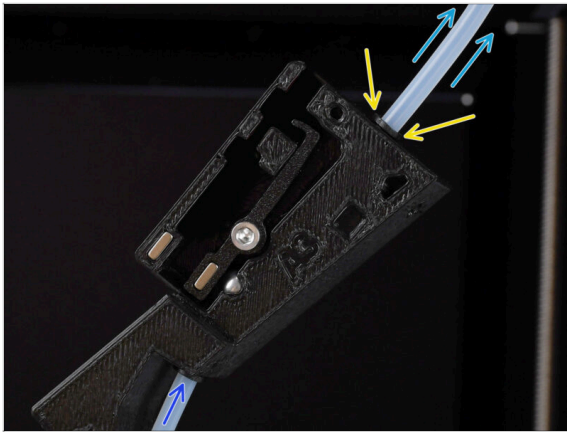
- Attach the O-ring on the spoolholder.
- Push the spoolholder into the puck part and rotate it clockwise to lock it in place.

PASO 8 Filament Sensor Removal



- Let's move onto the side filament sensor assembly.
 - Using the 2.5mm Allen key, remove the M3x10 screw on the right.
 - Using the 1.5mm Allen key, remove the M2x8 screw holding the filament sensor.
 - Remove the filament sensor PCB by moving it to a side.
 - 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.

PASO 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.

PASO 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.

PASO 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.

PASO 12 Sensor Preparation



Para los siguientes pasos, prepara:

- 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)

PASO 13 Sensor Base Assembly



- Inserta uno de los imanes en la abertura correspondiente de la palanca.
- Introduce la bola en la abertura correspondiente del interior de la base del sensor.
- Inserta la palanca con el imán en 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.

PASO 14 Lever Test



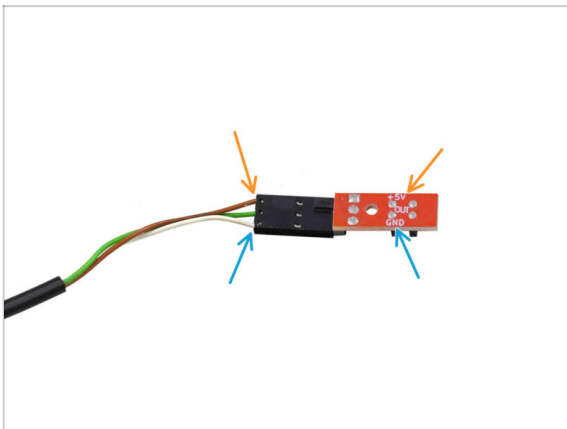
- Comprueba que la palanca puede moverse libremente.
- ⚠ Si la palanca no se mueve libremente o no se puede mover en absoluto, afloja el tornillo un cuarto de vuelta y vuelve a probar el movimiento.

PASO 15 Switch Assembly



- Inserta el segundo imán 10x6x2 en el filament-sensor-switch.
- Instala el filament-sensor-switch en el 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.

PASO 16 Sensor Connection Check



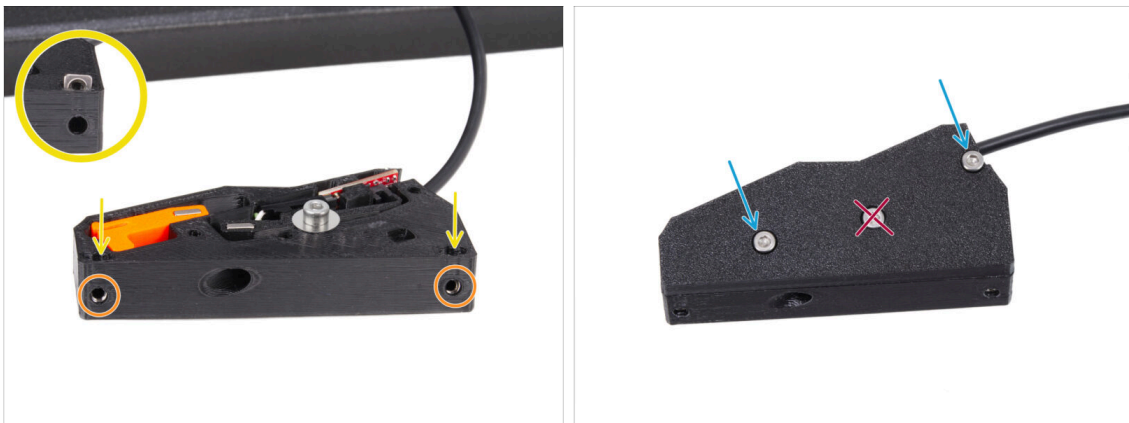
- On the inside of the printer, make sure the IR filament sensor is connected to the cable.
- ⚠ The cable color coding is somewhat non-standard on this printer model. Ensure the connector is plugged in correctly:
- The **brown** cable must connect to the **+5V** pin.
- The **white** cable connects to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

PASO 17 IR Sensor Installation



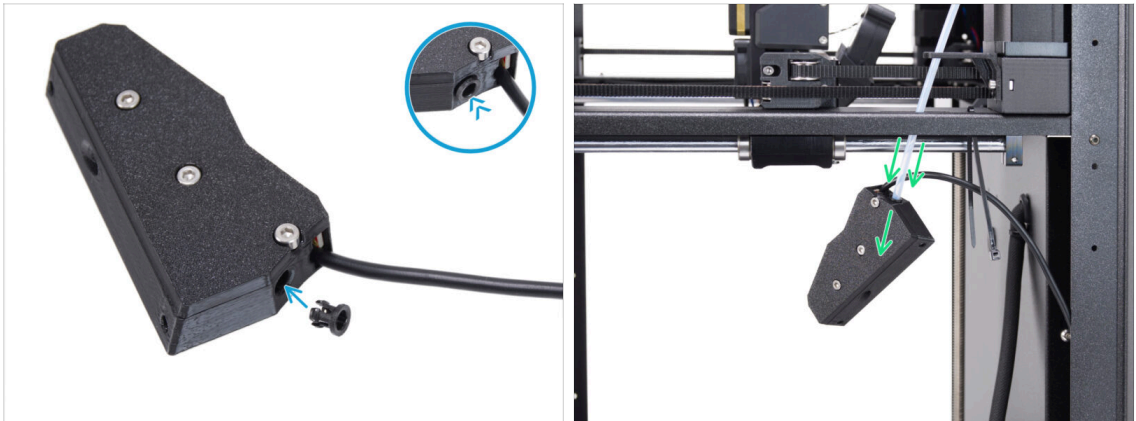
- First, insert the cable into the groove in the assembly. The connector should be approximately in the middle of the sensor base.
- Inserta el sensor de infrarrojos en la ranura correspondiente.
- The lever must fit into the optical gate part.
- Make sure neither the connector nor the cables touch the lever, as this may prevent the sensor from functioning correctly.
- Con la llave Allen de 1.5 mm, fija el sensor en su sitio con el tornillo M2x8.

PASO 18 Sensor Cover Installation



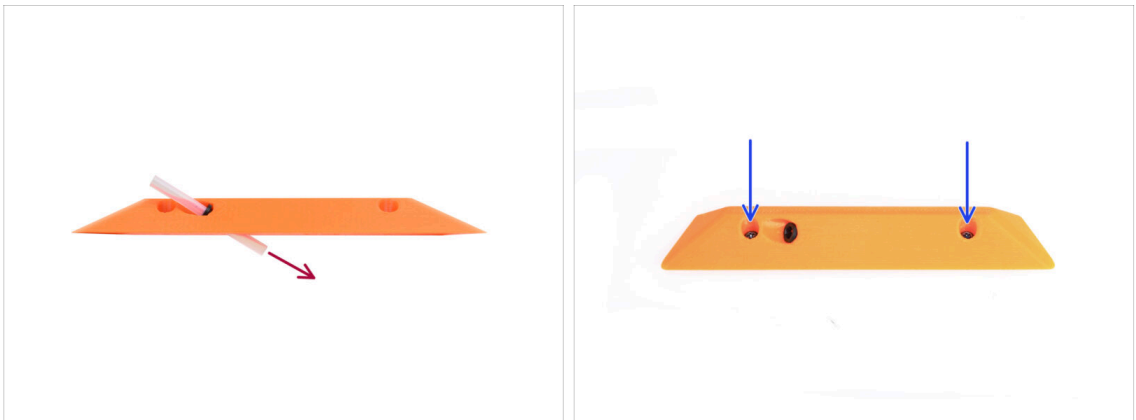
- Insert the two M3nS nuts into the designated openings. Use a 1.5mm Allen key to push them all the way in.
- View the part from side to ensure the nuts align with the openings.
- Add the cover part onto the assembly and fix it in place using two M3x8 screws.
- ⚠ Do not tighten the middle screw, as this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

PASO 19 Sensor Installation



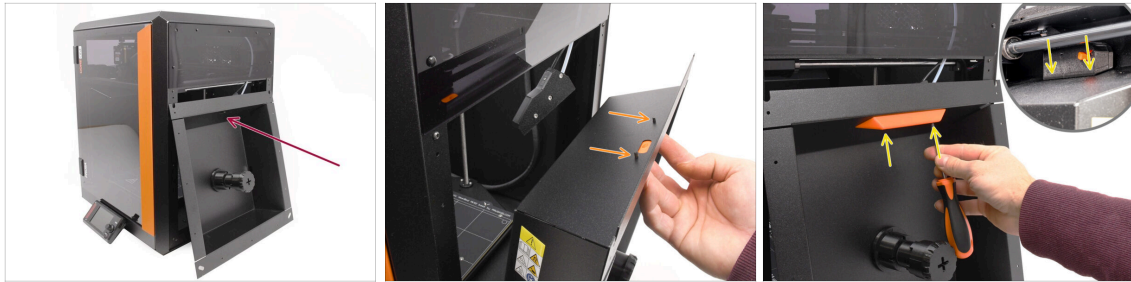
- Inserte la presilla en el orificio marcado en el conjunto del sensor.
- Coloca el conjunto del sensor en el tubo de PTFE de la impresora.
- ⚠ **Make sure the tube is pushed all the way in.**

PASO 20 Side Handle Preparation



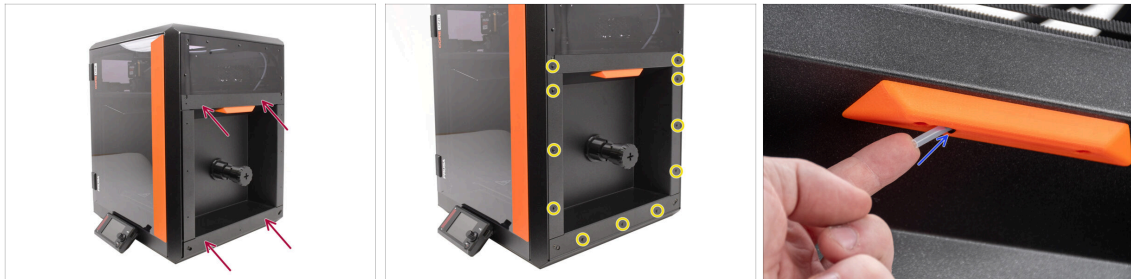
- Take the handle with the PTFE tube.
- Push the PTFE tube all the way through the handle and the collet, in order to remove it.
- 📌 In the unlikely case you have the earliest version of the printer without the collet in the handle, you need to print the latest revision of the part.
- Reinstall the two M3x10rT screws into the handle.

PASO 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.

PASO 22 Side Panel Attachment



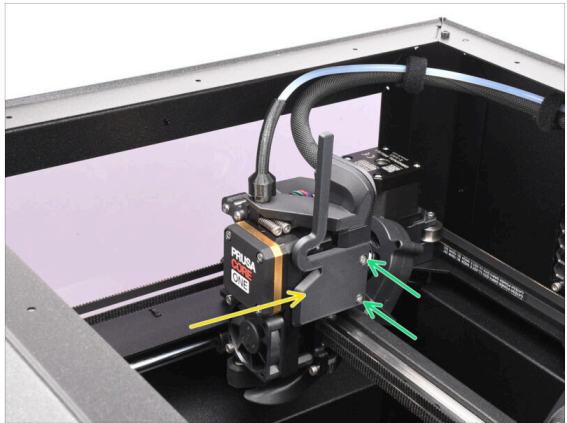
- Push the side panel to the inside of the printer. Be careful to prevent damaging the sensor assembly and the tube leading to it, on the inside.
- Fix it in place using the 11 Nylon rivets.
- Reinstall the short PTFE tube into the handle. Push it through the collet and make sure it is inserted all the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

PASO 23 Vent Lever Preparation



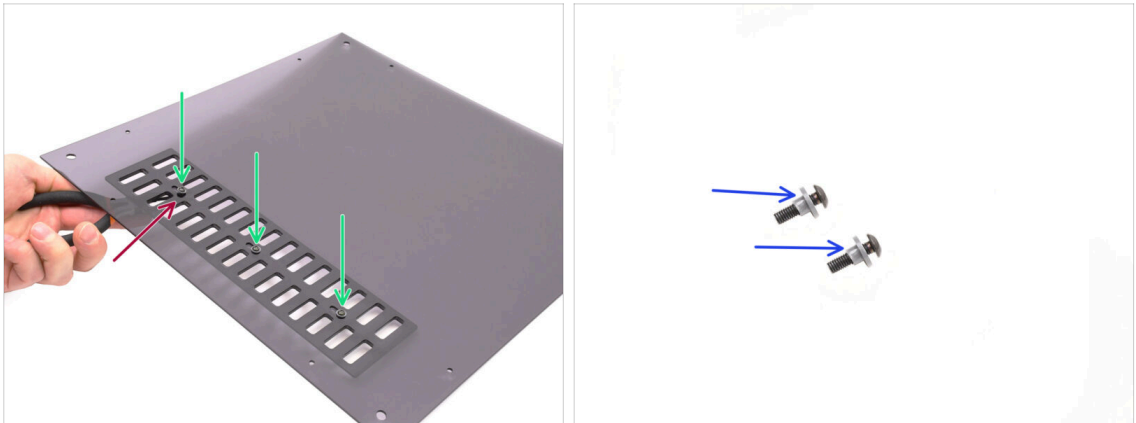
- Para los siguientes pasos, prepara:
- Cover Right Lever (1x)

PASO 24 Vent Lever Installation



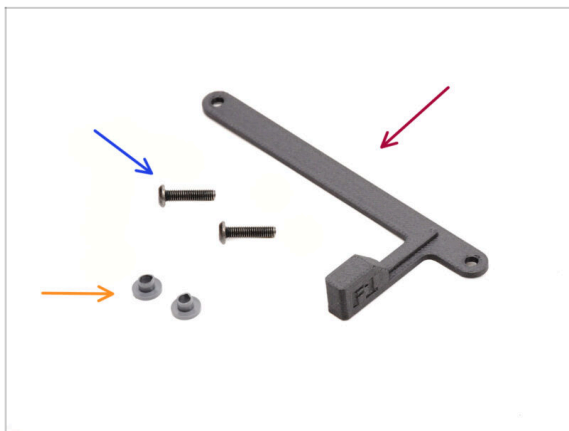
- Let's move to the inside of the printer.
- Undo the two M3x6 screws on the side of the print head and remove the cover on the right.
- Install the updated Cover-Right-Lever part instead.
- Fix it in place using the same two M3x6 screws.

PASO 25 Top Cover Disassembly



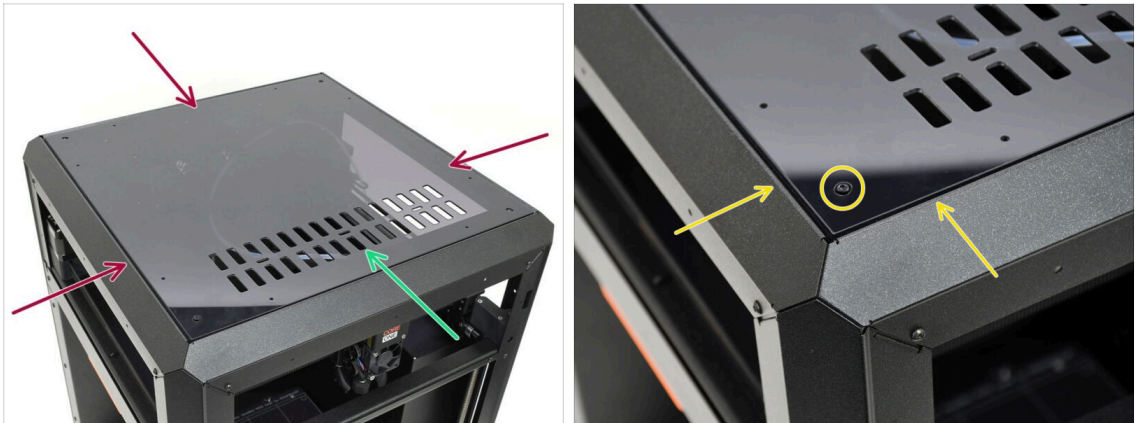
- Take the top cover you have removed earlier.
- Using the needle-nose pliers, reach for the M3nN nuts on the bottom of the cover.
- While holding the nuts, remove the three M3x10rT screws on top.
- Remove the plastic insulating inserts from **two** of the screws.

PASO 26 Vent Block Preparation



- **Para los siguientes pasos, prepara:**
- Upg-vent-block
- M3x12rT screw (2x)
- Insulating insert (2x) *previously removed*

PASO 27 Top Cover Test Fit



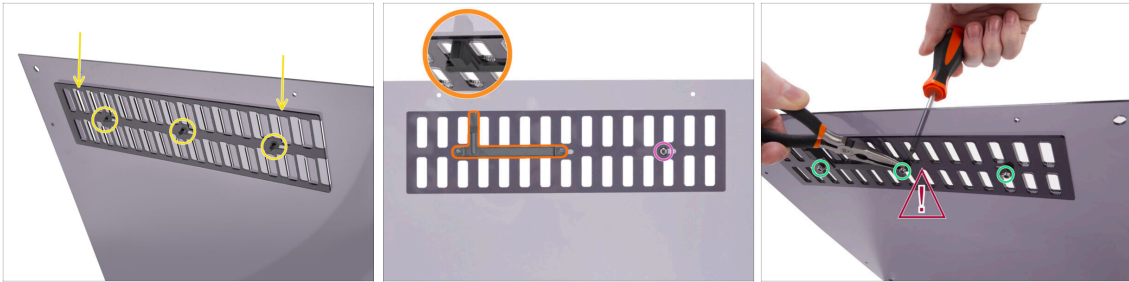
-  The cover isn't symmetrical. Make sure it is oriented the same way as when installed in the printer.
-  Maintain the cover in this orientation.
-  If oriented correctly, the cover must align with the recess, and the bolt heads in the corners will fit into the cutouts.

PASO 28 Top Cover Assembly



-  Run two of the longer M3x12rT screws through the insulating inserts.
 -  Asegúrate de que la parte con reborde del inserto esté orientada hacia la cabeza del tornillo.
-  Inserta los tornillos con los insertos a través de las tres aberturas de ranura en la rejilla de ventilación.
-  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.

PASO 29 Top Cover Assembly 2



- Alinea la tapa de ventilación con los extremos de los tornillos de la parte inferior.
- Aprieta a mano la tuerca M3nN situada más a la derecha en el tornillo M3x12rT para fijar la cubierta en su sitio.
- 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.

PASO 30 Top Cover Installation



- La parte superior del asa debe quedar a ras de la puerta. Intenta mover uno de los tres tornillos con la mano.

ⓘ 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.

- Fija la cubierta al marco utilizando cuatro remaches de nylon en las aberturas marcadas.

📌 Hay ocho aberturas, pero cuatro remaches deberían ser suficientes.

3. Final Setup



PASO 1 Preparación Pegatina Plus



- Para los siguientes pasos, prepara:
- Pegatina plexi CORE One+

PASO 2 Instalación Pegatina Plus



- Despega la etiqueta adhesiva de la capa protectora.
- Alinea la etiqueta con el **símbolo ONE** situado en la puerta frontal de la impresora. Presiona con firmeza para fijar la etiqueta en su sitio.
- Retira con cuidado la capa transparente y asegúrate de que el + no se despegue.

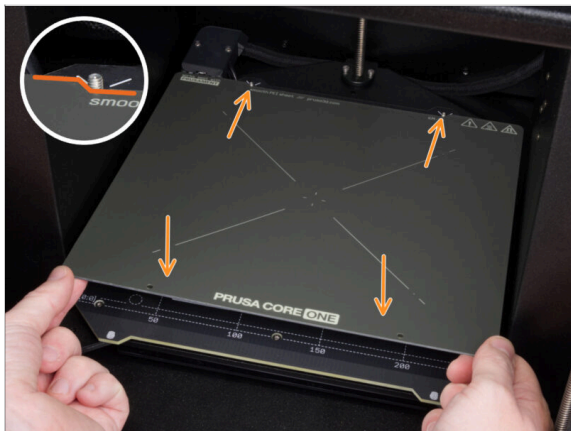
PASO 3 Pegatina S/N



⚠ ¡Este paso es necesario para poder ofrecer la garantía! ¡No tires la etiqueta!

- ✦ Retire la etiqueta SN antigua de la parte posterior de la impresora y sustitúyela por la nueva etiqueta CORE One +.

PASO 4 Lámina de Impresión



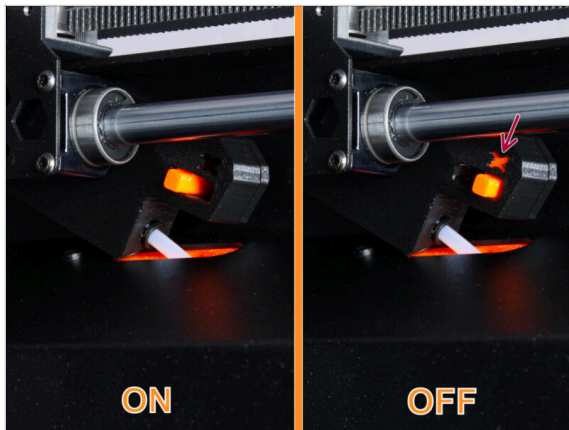
- ✦ Reinstala la lámina de impresión.

⚠ **Asegúrate de que no haya nada sobre la base calefactable.** La base calefactable debe estar limpia. Cualquier suciedad puede dañar la superficie tanto de la base calefactable como de la lámina de impresión.

- ✦ **Fija la lámina alineando primero el recorte trasero con los pasadores de bloqueo de la parte trasera de la base calefactada.** Sujeta la lámina por las dos esquinas delanteras y colócala lentamente sobre la base calefactable - ¡cuidado con los dedos!

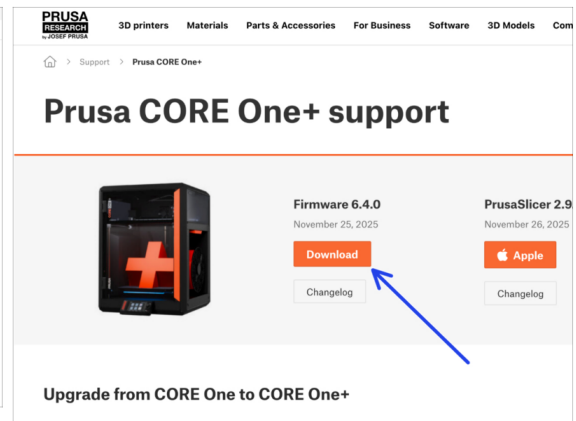
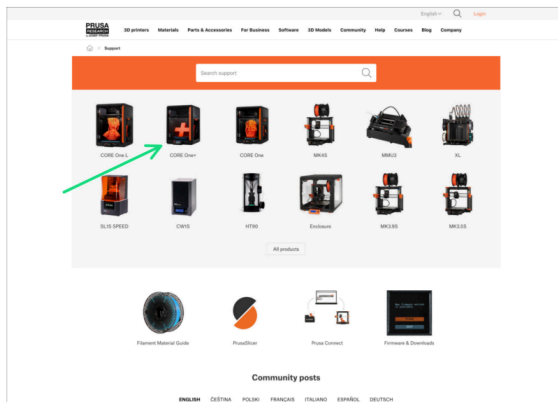
- ✦ Mantén la **lámina de impresión** limpia para un rendimiento óptimo.
- ✦ La causa N°1 de que las impresiones se despeguen de la superficie de impresión es una lámina de impresión grasienta. **Utiliza IPA (alcohol isopropílico) para desengrasarla** si has tocado antes su superficie.

PASO 5 Interruptor Sensor Filamento



- Comprueba el interruptor manual del sensor de filamento está en la **posición ON**.
- La posición OFF se puede identificar por la parte naranja del interruptor deslizante visible a través del símbolo "X" del interruptor.

PASO 6 Descarga del firmware



- Tendremos que actualizar el firmware.
- ① La CORE One+ requiere la versión de firmware 6.4.0 o posterior.
- Visita la [página de ayuda de la Core One+ en Help.Prusa3D.com](https://help.prusa3d.com).
- Descarga el archivo de firmware (.bbf) más reciente.
Guarda el archivo en una unidad USB.

PASO 7 Flasheo de Firmware



- Inserta la unidad USB con el archivo de firmware en la impresora.
- Conecta el cable de alimentación.
- Enciende la impresora mediante el interruptor situado en la parte posterior.
- Una vez que aparezca en la pantalla "Nuevo firmware disponible", selecciona la opción **FLASH**.

PASO 8 Selftest



- Después de terminar la actualización, te recomendamos visitar el menú de **Control > Calibración y Tests** ejecuta el Selftest desde el principio.

PASO 9 Ajustes Ventilación Cámara



- Para habilitar la apertura automática de la rejilla superior, ve a **Ajustes -> Hardware -> Control ventilación cámara** y selecciona la opción **Auto**.

PASO 10 Terminando



- ¡Enhorabuena! ¡Tu CORE One + actualizada está lista para funcionar!
- ¡Felices impresiones!

Manual changelog



PASO 1 Version history



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

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