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# 1. Introducción



## PASO 1 Important



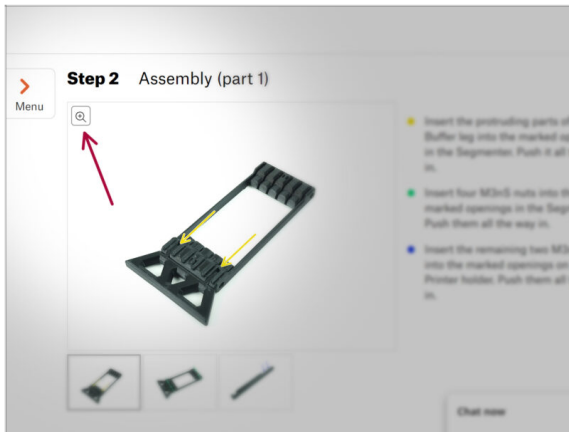
- Congratulations on your purchase of the assembled Original Prusa MK4S with MMU3!
- This guide is dedicated only to the set of assembled MK4S with MMU3 from factory. If you ordered only assembled MMU3 unit and purchased the printer separately, please use this guide [Original Prusa MMU3 Assembly](#)
- ⚠ Even though this is an assembled version, **there are still a few accessories to assemble before you can start printing:**
  - Cassette Buffer Assembly
  - Spool Holder Assembly (5x)
- Follow the instructions carefully, and proceed with the assembly.

## PASO 2 Tools required



- The following chapters require:
  - 2.5mm Allen key
  - Side cutters

## PASO 3 Ver imágenes de alta resolución



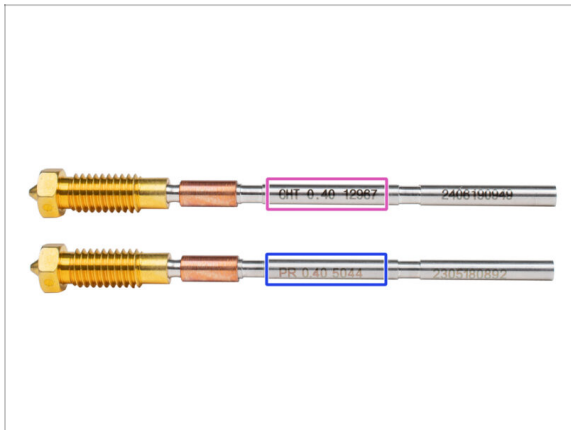
- Cuando utilices el manual en la web [help.prusa3d.com](https://help.prusa3d.com), puedes ver las imágenes originales en mayor resolución para mejor claridad.
- Just hover your cursor over the image and click the Magnifier icon ("View original") in the top left corner.

## PASO 4 Labels guide



- All the boxes and bags containing the parts for the build are labeled.
- Most of the part drawings on the labels are scaled 1:1 and can be used to identify a part.
- You can download and 2D print a Prusa Cheatsheet with the 1:1 scaled fastener drawings. [help.prusa3d.com/cheatsheet](https://help.prusa3d.com/cheatsheet). Print it at 100 %, don't rescale it, otherwise, it won't work.

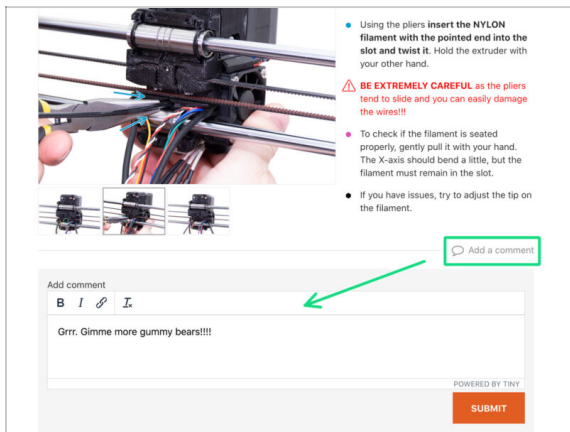
## PASO 5 Prusa Nozzle info



There are two variants of the Prusa Nozzle that we ship with the printers:

- ◆ Prusa Nozzle brass CHT high flow (*marked CHT*)
- ◆ Prusa Nozzle brass (*marked PR*)
- ◆ Your MK4S came equipped with the Prusa Nozzle brass by default.
- ① While it is possible to print with the Prusa Nozzle CHT, please note that specific settings are required for high quality prints.
- ◆ La Prusa Nozzle CHT también está incluido en tu paquete MMU3.
- ◆ To replace the nozzle on the MK4S, please follow the instructions provided in the dedicated manual [How to replace the Prusa Nozzle \(MK4S/MK3.9S\)](#).

### PASO 6 ¡Estamos aquí para atenderte!



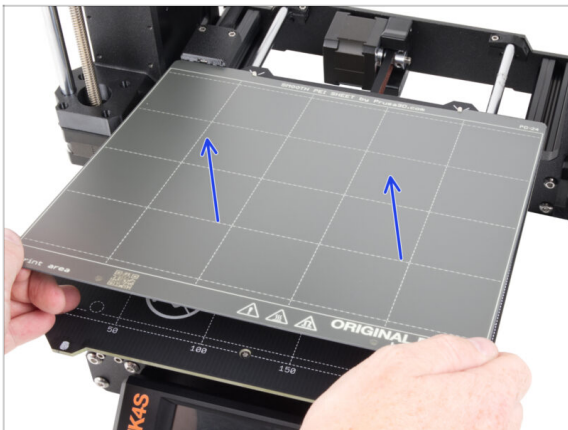
- ¿Estás perdido en las instrucciones, falta el tornillo o la pieza impresa está rota? ¡Háznoslo saber!
- Puedes contactar con nosotros empleando los siguientes medios:
  - Using our [24/7 live chat](#)
  - Or by writing an email to [info@prusa3d.com](mailto:info@prusa3d.com)
  - Or, you can use the comments under each step.

### PASO 7 Prepare your desk



- ¡Ordena tu escritorio! Ordenar disminuye la probabilidad de perder piezas pequeñas.
- **Clear your workspace.** Make sure you have enough room. A nice clear flat workbench will get you the results you are aiming for.
- **¡Que haya luz!** Asegúrate de que estás en un entorno bien iluminado. Otra lámpara o incluso una linterna adicional probablemente te resulten útiles.
- Prepara algo para guardar las bolsas de plástico y los materiales de embalaje retirados para poder reciclarlos después. Asegúrate de que no se desecha ninguna pieza importante.

## PASO 8 Preparing the printer



- Carefully remove the test print from the print sheet.
- Remove the print sheet and put it aside for a while.
- All set? Let's move on to the next chapter: **2. Cassete Buffer Assembly**

## 2. Montaje del Casete del buffer



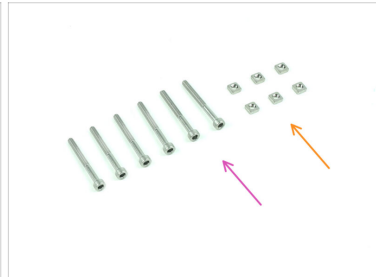
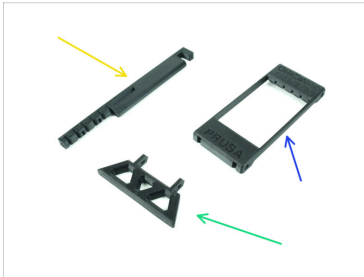
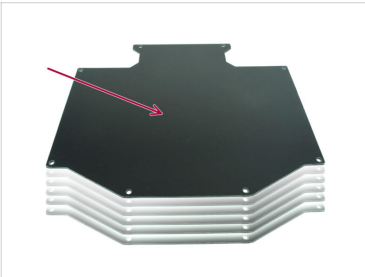
## PASO 1 Herramientas necesarias para este capítulo



● **Por favor prepara las herramientas para este capítulo:**

- Llave Allen de 2.5mm para tornillos M3

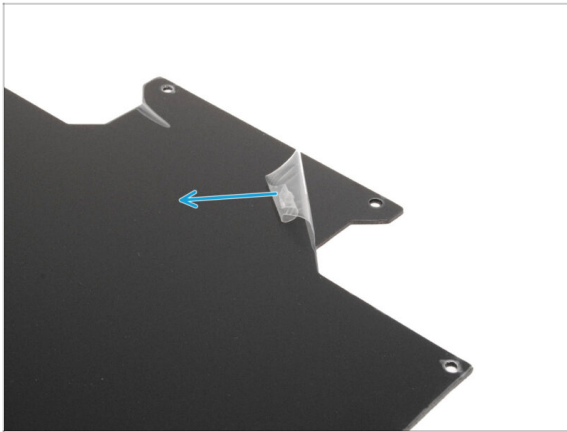
## PASO 2 Parts preparation



● **Para los siguientes pasos, por favor prepara:**

- Placas del buffer (6x)
- Soporte de la impresora (1x)
- Buffer-leg (1x)
- Segmentador (1x)
- Tornillos M3x30 (6x)
- Tuerca M3nS (6x)

### PASO 3 Peeling the plates



- Despega las **capas protectoras** de ambos lados de las placas buffer.

### PASO 4 Assembly (part 1)



- Introduce las partes salientes de la pata del Buffer en las aberturas marcadas en el segmentador. Empújala hasta el fondo.
- Introduce cuatro tuercas M3xS en las pequeñas aberturas marcadas en el Segmentador. Empújalas hasta el fondo.
- Inserta las dos tuercas M3xS restantes en las aberturas marcadas en el Soporte de la impresora. Empújalas hasta el fondo.

## PASO 5 Assembly (part 2)



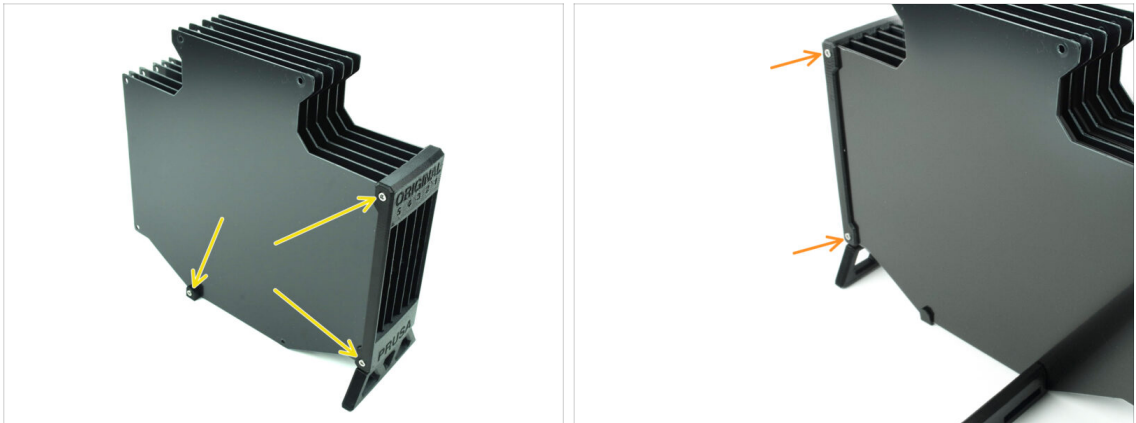
- Introduce la primera placa del buffer en la abertura inferior marcada en el Segmentador. Empújala hasta el fondo para que las aberturas de los tornillos queden alineadas.
- Asegúrate de que la pata del buffer y las partes recortadas de la lámina están en lados opuestos - como se ve en la imagen.
- Coloca el soporte de la impresora en la posición marcada en la lámina del buffer. Por ahora, debe apuntar hacia arriba. La lámina debe fijarse a la abertura inferior del soporte de la impresora.
- Orienta todo el conjunto de modo que la lámina intermedia quede de pie. Tanto el soporte de la impresora como la Pata deben estar en el suelo.

## PASO 6 Assembly (part 3)



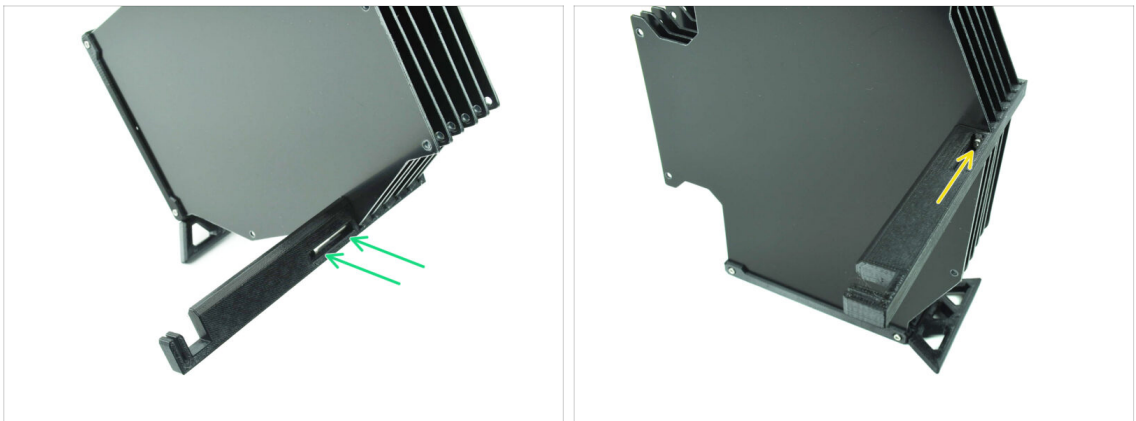
- Introduce las 5 placas buffer restantes en las aberturas correspondientes del soporte del segmentador y de la impresora.
- Ahora todo el conjunto debe parecerse al de la segunda imagen.

## PASO 7 Assembly (part 4)



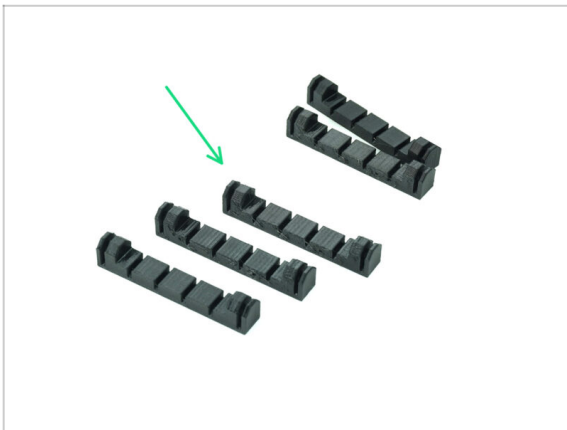
- Inserta tres tornillos M3x30 en las aberturas marcadas en el lateral del Segmentador y del Soporte de la impresora. Apriétalos.
- ❗ Si el tornillo no entra, asegúrate de que todos los orificios están alineados con las placas.
- ⚠ **No aprietes demasiado el tornillo. De lo contrario, las placas buffer podrían deformarse.**
- Coloca otros dos tornillos M3x30 en las aberturas del otro lado del Segmentador.

## PASO 8 Assembly (part 5)



- Inserta el último tornillo M3x30 en la abertura marcada en el Printer-holder.
- ❗ Note that some versions of the part may have the opening on the opposite side, but the assembly process remains the same.
- ⚠ **No aprietes demasiado el tornillo. De lo contrario, las placas buffer podrían deformarse.**
- Introduce el tornillo en el conjunto hasta que llegue a la tuerca. Apriétalo.

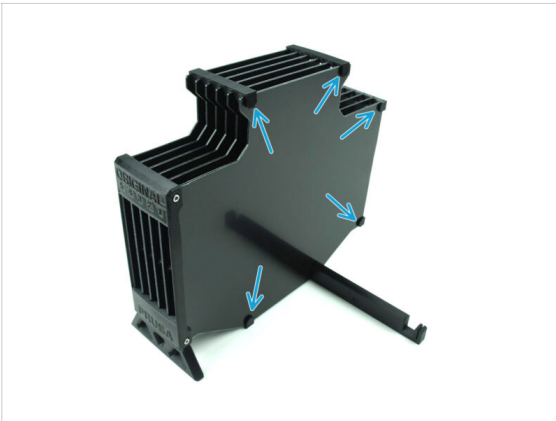
## PASO 9 Parts preparation: Plate-holders



● Para los siguientes pasos, por favor prepara:

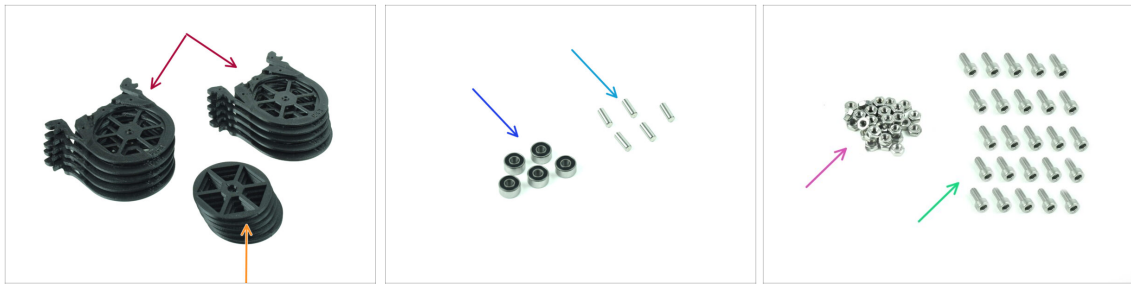
● Plate-holder (5x)

## PASO 10 Assembly (part 6)



● Fija los portaplasca a las placas en las posiciones marcadas.

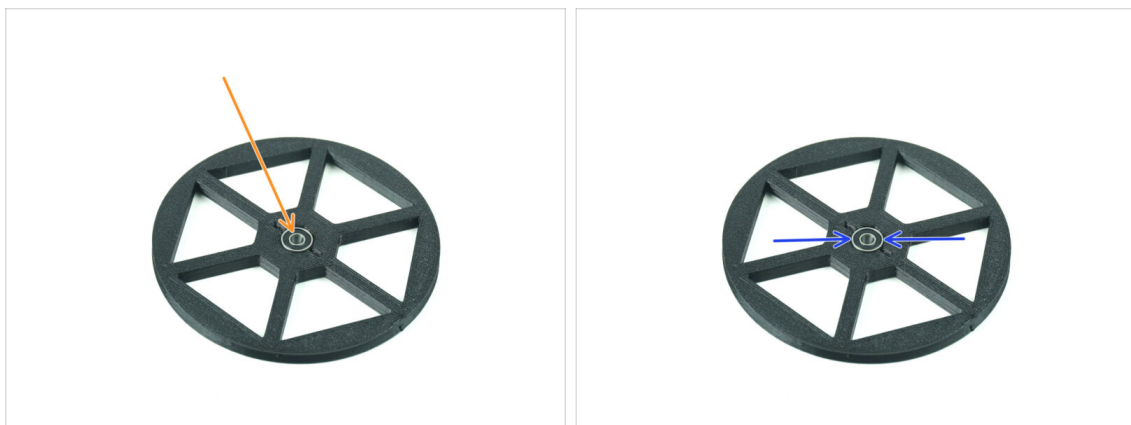
## PASO 11 Preparación de las piezas del segmento del buffer



● Para los siguientes pasos, por favor prepara:

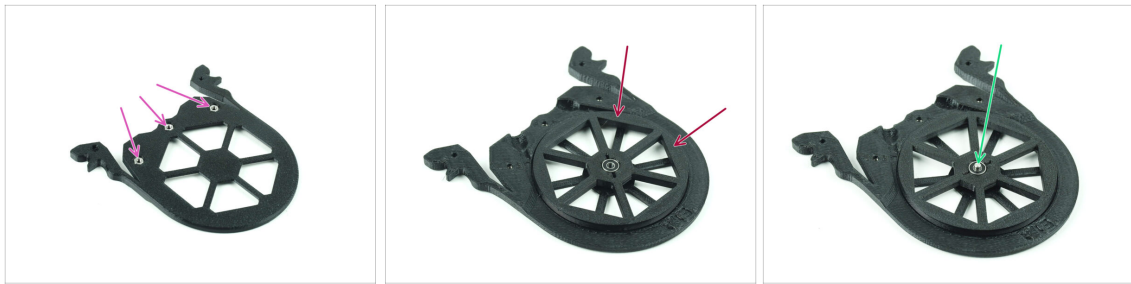
- Segmento del Buffer (10x)
- Rueda (5x)
- Rodamiento de bolas 693-2rs (5x)
- Eje 2.9x8.5 (5x)
- Tuerca M3n (15x)
- Tornillo M3x6 (25x)

## PASO 12 Segment assembly (part 1)



- Inserte el **rodamiento** en la abertura central de la rueda.
- Asegúrate de que el rodamiento se introduce hasta el fondo, hasta que quede enrasado con la superficie.
- Repeat for the remaining four wheels.

### PASO 13 Segment assembly (part 2)



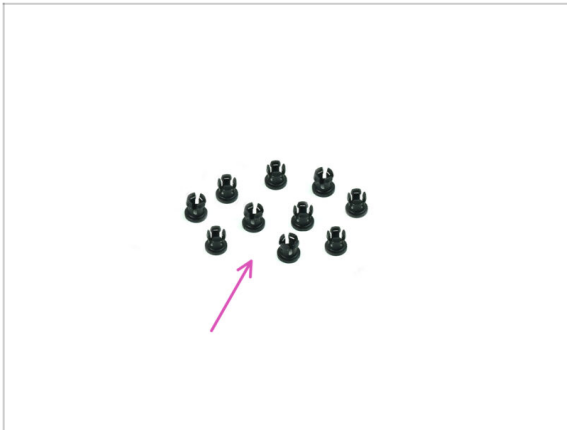
- ✚ Insert three **M3n nuts** into the marked openings on the Segment and push them all the way in.
- 🔴 Add the wheel into the center of the segment.
- 🟢 Empuja el **Ee** hasta el centro del rodamiento, hasta que encaje en el segmento inferior.

### PASO 14 Segment assembly (part 3)



- 🟡 Cover the assembly with another **Segment** part. Push both parts together to make sure the center shaft engaged into the top segment too.
- 🔵 Join both parts together using four **M3x6** screws.
- 🔴 Turn the assembly around.
- 🟢 Add the fifth **M3x6** screw from the other side.
- ⬛ **Monta todos los segmentos restantes**, utilizando la misma técnica.

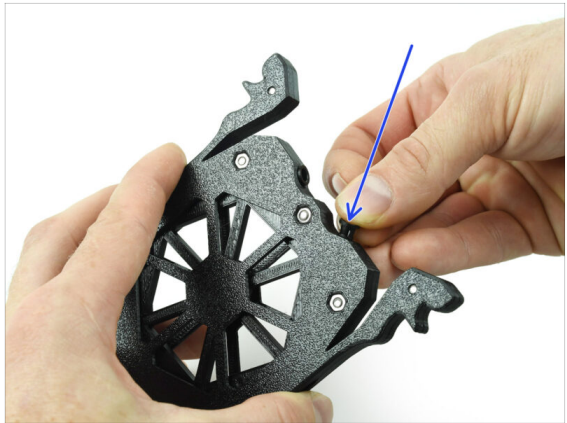
## PASO 15 Collets: parts preparation



● Para los siguientes pasos, por favor prepara:

● Collet (10x)

## PASO 16 Collet installation



● Insert one of the **collets** into the marked position on the cartridge.

⚠ Note, for an easier instalation, you might want to squish the small fins together while you insert the collet into the opening. Otherwise, one of the fins might spread outwards, resulting in a damaged collet.

● Inserta otro collar en la otra abertura.

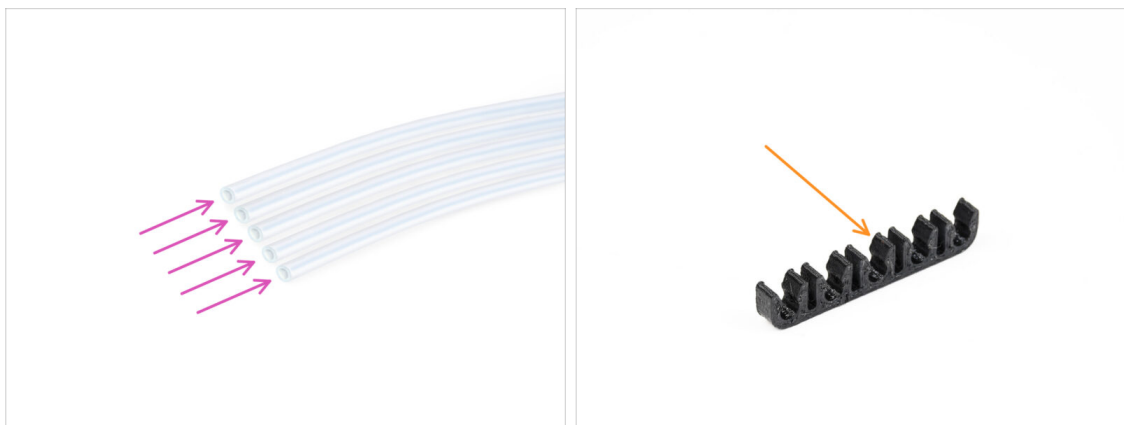
● Instale también los collares en los cuatro cartuchos restantes.

## PASO 17 Cartridge installation



- Ahora, prepara los 5 cartuchos y el cuerpo del buffer.
- Coje uno de los cartuchos y sujétalo por las dos asas. Aprieta las asas para insertarlo.
- Inserta el cartucho en el cuerpo del buffer.
- Asegúrate de que el cartucho está correctamente insertado.
- ✂ Para extraer el cartucho más tarde, aprieta las dos asas y tira de él.
- Inserta **todos los cartuchos** en el cuerpo del buffer.

## PASO 18 Preparación de las piezas de los tubos PTFE



- Para los siguientes pasos, por favor prepara:
- PTFE 650mm (5x)
- PTFE-clip (1x)

## PASO 19 PTFE tubes installation



- ✚ Insert the PTFE tubes into the upper collet in each of the cartridges. Push them all the way in.
- ✚ Join the PTFE tubes together using the PTFE clip approximately in the middle.

### 3. Montaje del Porta Bobinas



#### PASO 1 Injection molded holder parts preparation



● Para los siguientes pasos, por favor prepara:

● Base soporte bobina (4x)

● Guía de soporte de bobina (1x)

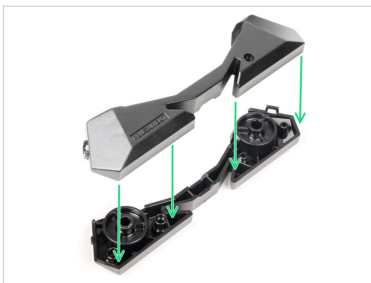
● Rueda Soporte bobina (4x)

ⓘ Wheels shipped after April 2024 are made of POM. We recommend using this version over the earlier models made from ABS.

● sheet of Foam Pads (1x)

● PTFE holder (1x)

#### PASO 2 Montaje de la base (parte 1)



● Coge una pieza Base. Colócala como en la imagen.

● Inserta las dos ruedas en la Base.

● Cubre el montaje con otra pieza Base encima.

### PASO 3 Montaje de la base (parte 2)



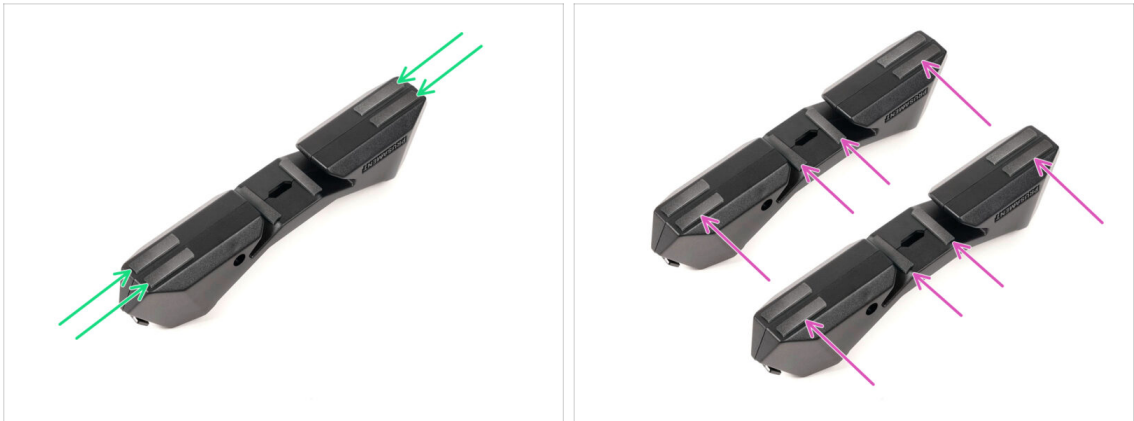
- Empuja ambas piezas Base hasta que encajen completamente una en la otra.
- Comprueba que las piezas de la base se mantienen unidas correctamente.
- Repite los mismos pasos para el otro lado del soporte de bobina de filamento, hasta que tengas dos de estos.

### PASO 4 Instalación de las almohadillas de espuma (parte 1)



- Coge la lámina de almohadilla de espuma. Dóblala para separar las tiras individuales de almohadilla de espuma.
- Hay una línea de doblado dentro de la abertura interior en la parte inferior de la pieza lateral del portabobinas.
- Coloca una tira de almohadilla de espuma individual en el medio de la línea de doblado dentro de la abertura, como se muestra en la imagen.

## PASO 5 Instalación de las almohadillas de espuma (parte 2)



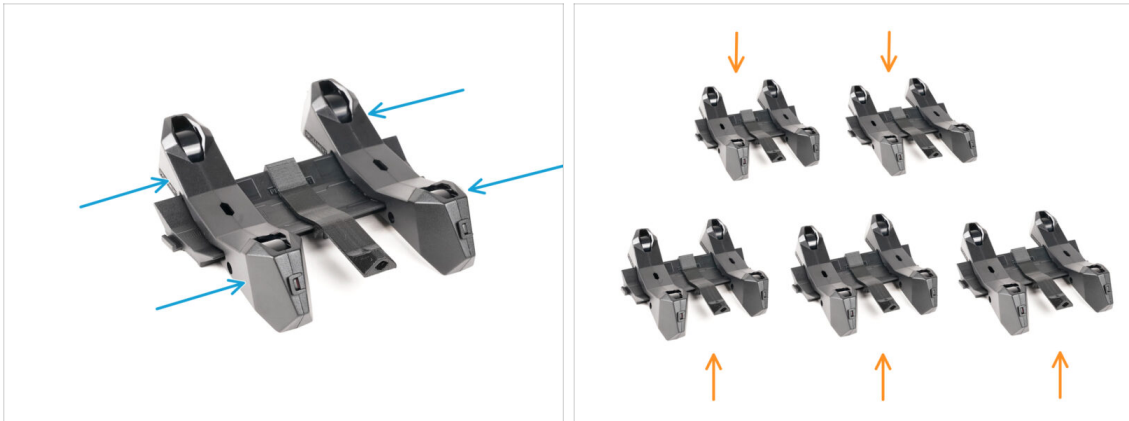
- Coloca otras cuatro tiras de almohadilla de espuma en las posiciones marcadas en la parte inferior de la pieza lateral del portabobinas.
- Instala otras seis tiras de almohadilla de espuma en la otra parte lateral del portabobinas.

## PASO 6 PTFE holder assembly



- Take the spoolholder Guide part. Hook the end of the PTFE holder onto the Guide
- Make sure the longer part of the PTFE holder is located at the narrower side of the Guide part.
- Push the PTFE holder down onto the Guide until it fully engages and locks in place.

## PASO 7 Finishing up the Spoolholders (inj. mol.)



- Desliza las partes laterales sobre la parte Guía.
- Repeat the same steps for the remaining Spool holders, until you assemble all five. (Don't forget about the foam pads on the bottom!)

## PASO 8 Joining the Spoolholder Guides



- There are protrusions on each side of the Guide part.
- Using these protrusions, the Guide parts can be joined together. To join them together, simply tilt in the Guide parts one into the other until the protrusions click in.
- The Guides can be joined together in form of a straight line.
- Or, if you flip one of the Guides around, they can be joined in an arc pattern. This is handy to form an arc of spool holders around the Buffer so that each filament path is as straight as possible.

## PASO 9 Injection molded spoolholder: parts preparation

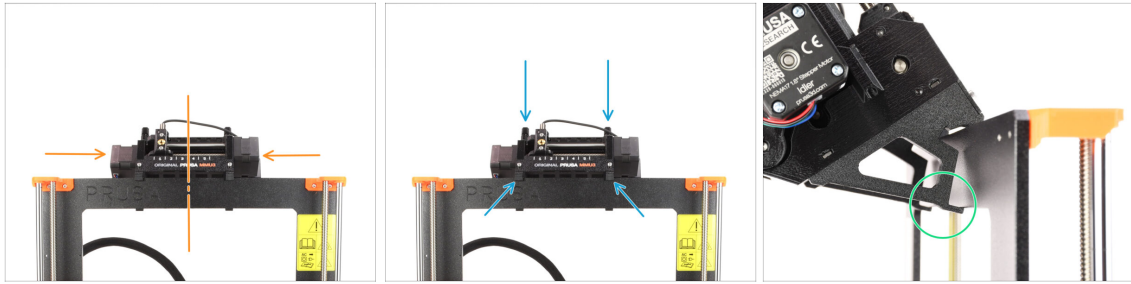


- Congratulations! You successfully assembled **all five spool holders**.
- Now, continue in the chapter: **4. Preparing the assembly**

## 4. Preparando el montaje



## PASO 1 Attaching the MMU unit (part 1)



- ✶ The MMU3 unit should be placed onto the top part of the printer's frame.
- ✷ Place the MMU3 unit onto the frame.

**Attach it just by the top hooks.**

- ✸ Look from behind, there are "clamps", which will be used to lock the unit to the frame in the next step.

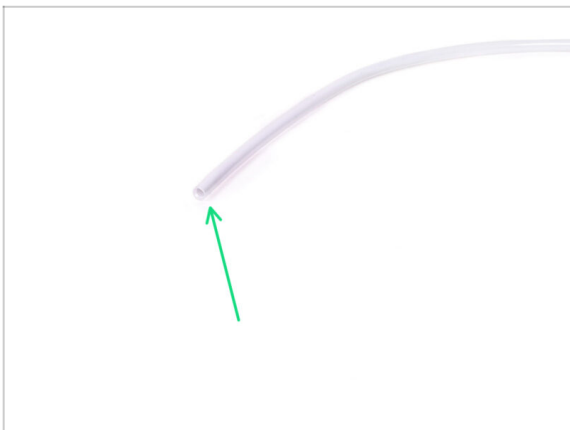
## PASO 2 Attaching the MMU unit (part 2)



- ✶ Press the back part of the MMU3 unit downwards slightly, until the clamps lock to the frame.
- ✷ Check that both bottom clamps on the unit are fully engaged.
- ⓘ If you need to remove the unit from the frame, simply lift the back part up to disengage the clamps.

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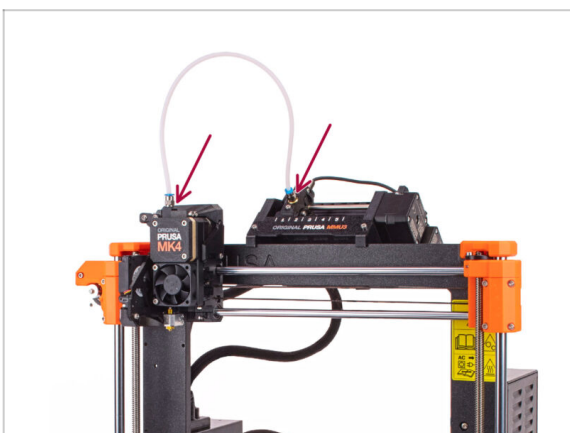
### PASO 3 MMU-to-Extruder PTFE tube parts preparation



- **Para los siguientes pasos, por favor prepara:**
  - Tubo PTFE 360x2.5mm (1x)

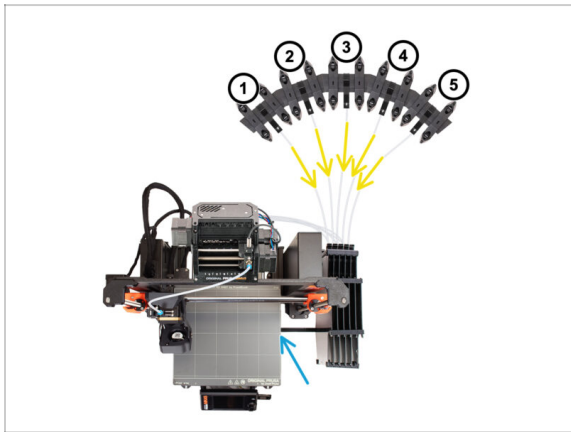
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### PASO 4 MMU-to-Extruder PTFE tube



- Attach the PTFE tube onto the printer by inserting it into the fittings. One end goes onto the selector. The other goes onto the extruder.
- Tighten the fittings up using the Uniwrench, if necessary.

## PASO 5 Spoolholders setup



- The Buffer and spools setup in the picture is the one we will be trying to achieve. Arrange the **spool holders** and the **buffer** as seen in the picture.
- Hook up the "printer holder" part on the buffer to the extrusion on the printer.
- The PTFE tubes should go from the spoolholders to the buffer. Then, from the buffer to the back of the MMU.
- ⚠ Note the spool holder positioning. It is important that filament has **as straight path as possible** and that nothing interferes. PTFE tubes should **not be bent too much**. Otherwise, the filaments will jam.

## PASO 6 Spoolholder-to-Buffer PTFE tube

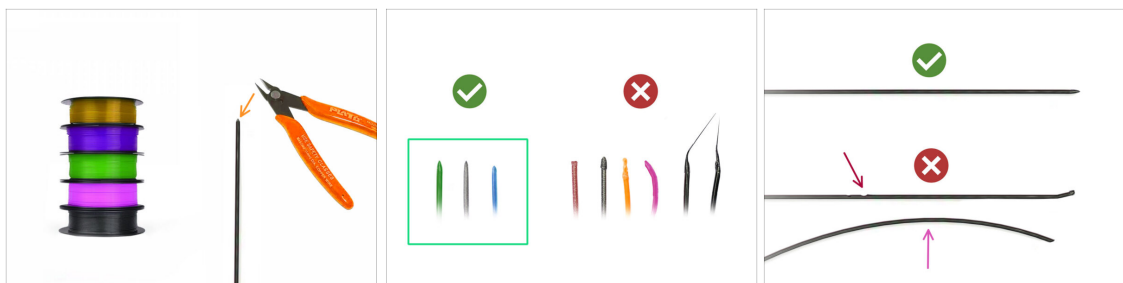


- Connect the PTFE tubes **from the MMU** unit to the **BOTTOM row of collets** on the buffer, ensuring you match the numbering on both the buffer and the MMU unit.
- Attach each end of the PTFE tube from the Buffer to the PTFE holder on each Spool holder.
- 📌 Make sure each spool holder is hooked up to the corresponding filament position number. (marked 1 to 5 on the MMU unit and the buffer.)
- ⚠ The MMU3 for MK4S necessitates the use of the latest version of the buffer components. If you're using an older version, it's essential to rebuild the device using the most recent version available.
- Now it's time to get closer to printing. Let's move to the next chapter.

## 5. Primer comienzo



## PASO 1 Filament preparation

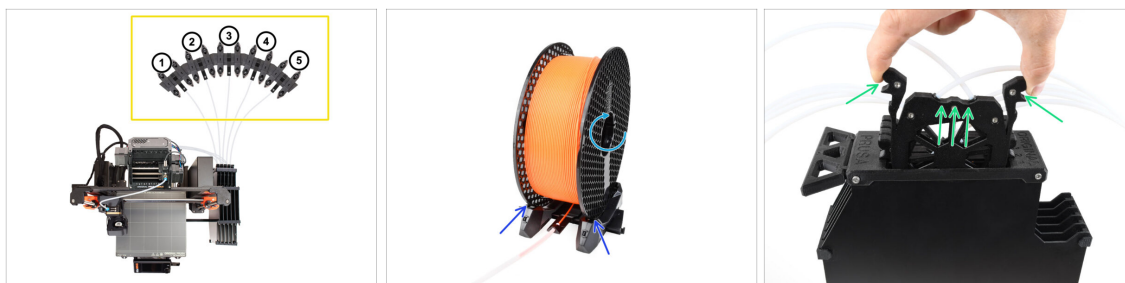


⚠ Your **assembled MK4S with MMU3 bundle** has been calibrated and tested in our factory. However, a few easy checks are still required.

📌 ¡Ahora podemos cargar los filamentos e imprimir el objeto de prueba! Pero antes;

- 🟡 Prepara al menos **cinco filamentos de PLA diferentes** y **corta los extremos** para formar una **punta afilada** en cada uno - como se ve en la imagen.
- 🟢 Los filamentos deben tener una **punta afilada** para poder cargarse correctamente tanto en la MMU como en la impresora. Si la punta está deformada, doblada o tiene un diámetro mayor, no se cargará correctamente.
- 🟠 Inspecciona los últimos **40cm (15")** de cada filamento. Asegúrate de que no está **sin deformaciones** en ella. A veces, si el filamento se atascó antes, la rueda de la polea hace una hendidura en él. Esta parte del filamento ya no puede ser agarrada y movida por la unidad MMU y debe ser cortada.
- 🟣 Si el extremo del filamento está doblado, enderézalo. **Debe estar perfectamente recto.**
- ⚠ Utiliza únicamente filamento de alta calidad con una desviación de diámetro baja garantizada. En caso de que tenga problemas de carga/descarga de filamento en el futuro, vuelve a revisar este paso también. Asegúrate de que el filamento está seco. Los filamentos sensibles a la humedad pueden ser problemáticos durante el funcionamiento de la MMU.

## PASO 2 Suggested filament layout



- Coloca los cinco filamentos en los portabobinas. Asegúrate de que las bobinas no interfieran entre sí.
  - i Filament positions are labeled **1,2,3,4,5** from the left to right, from the user's point of view.
  - Ajusta cada portabobina de forma que la bobina encaja correctamente en los rodillos.
  - Verifica que el bobina **puede girar libremente** y que nada interfiere.
- Saca el casete para **Filamento 1** del buffer.

## PASO 3 Loading a filament through the buffer



- Insert the **tip of the filament 1** into the bottom PTFE tube attached to the spoolholder.
- Keep pushing the filament into the PTFE tube until it appears in the corresponding buffer cassette.
- Take the tip and insert it through the cassette into the other PTFE tube, which goes into the MMU unit.

## PASO 4 Preloading filaments to MMU



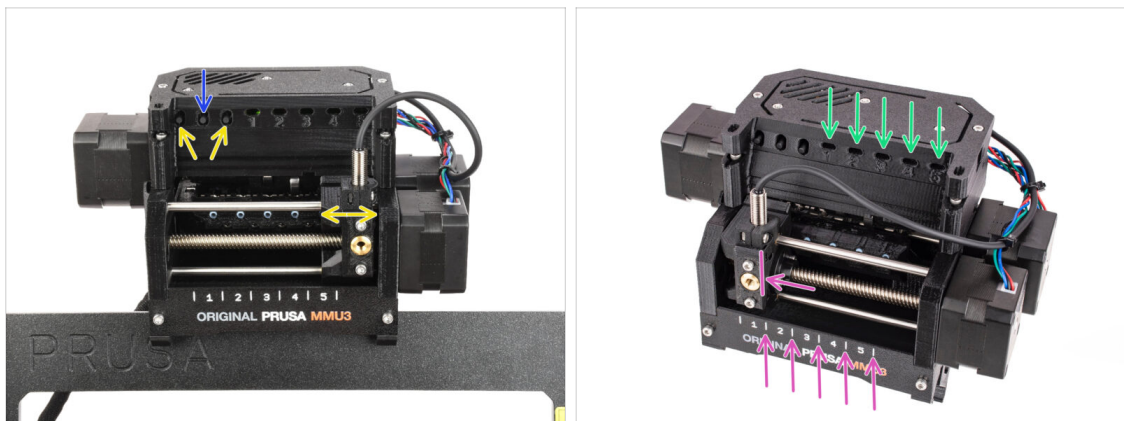
- On the printer, go to the **Filament -> Preload to MMU**
- Select **Filament slot 1**. The MMU unit will engage the idler into the first position and start rotating the pulley until the filament is loaded in.
- Keep pushing the corresponding filament end into the PTFE tube from the buffer into the MMU, until you feel the filament being pulled in.
- ⚠ **Remember, the filament tip must be straight and sharp in order to load it properly.**
- Repeat the same process until you load all **five** filaments.

## PASO 5 Closing the buffer



- After a given filament is successfully loaded into the MMU, return its cassette back into the buffer.
- Repeat the same process for the other filament positions, until you successfully load **all five filaments** into the MMU.

## PASO 6 Pro tip: Loading using the buttons.



- También puedes cargar un filamento en la MMU utilizando los botones de la unidad. La próxima vez que cargues un filamento, utiliza el método que prefieras. Ya sea desde el menú LCD, o utilizando los botones físicos.
- **Mientras la MMU está inactiva;** (indicado por TODAS las luces LED APAGADAS)
  - **El botón central** inicia o aborta la carga de filamento en la MMU.
  - Los **botones laterales** mueven el selector a izquierda y derecha para cambiar las posiciones del filamento.
  - Utiliza los botones laterales para desplazar el selector a la posición de filamento deseada, indicada por la alineación del selector con una de las líneas de la placa de identificación.
  - The ongoing **loading** process is indicated by a **blinking green LED** light for the respective filament position.
  - **Stable green LED** light means the given filament is loaded to extruder.
- 📌 Note, after you issue a command to the MMU unit, wait and let it finish the operation. Don't rush. Don't play around with the printer in the meanwhile. **Let it finish first if the MMU unit does something (homing, loading, unloading).**

## PASO 7 Test de Carga (parte 1)



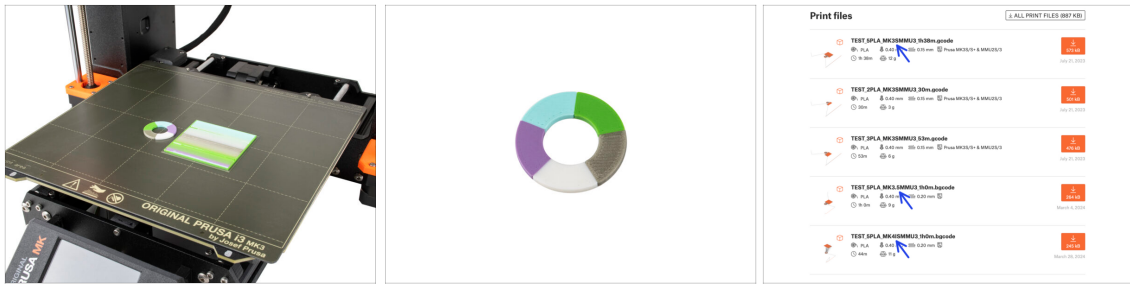
- ➊ Go to the **Control > Loading test**
- ➋ Select the filament type to preheat (PLA)
- ➌ **Test all the filaments from 1 to 5 manually**, if "Test All" item is unavailable on your firmware version.
- ➍ The MMU unit will now load and then unload all five filaments to see if all work correctly.

## PASO 8 Test de Carga (parte 2)



- ➎ On the **MK4S** printer, you can check the filament sensor's status in the "footer" area of the LCD screen to see if it's detecting the filament correctly.

## PASO 9 Printing a test object



- ❗ We need to print a test object to verify that everything works correctly. Don't worry, it will be a quick print.
- 🔗 Visit [MMU3 Test objects](#) on Printables.com
- 📁 In the Print files section, download a G-code file pre-sliced for your **printer model**.
- 💾 Save the **.gcode** or **.bgcode** file onto a storage media and print the test object.

## PASO 10 Tools Mapping



- 🔗 **Tools Mapping screen** on MK4S allows you to reassign the extruders with the specified color to another one as needed.
- 📁 On the left side, you'll see a list of the required materials and their colors, as specified in the G-code file.
- 📁 On the right side, you'll find a list of materials currently available on the printer, that will be used to print the object.
- 📌 For example, if the G-code requires orange filament in the first position, but you have orange loaded in the fifth position, select the first position on the left menu and then assign it to the fifth position on the right.
- ❗ Toca dos veces las posiciones de filamento o utiliza el codificador para seleccionar el número del filamento.

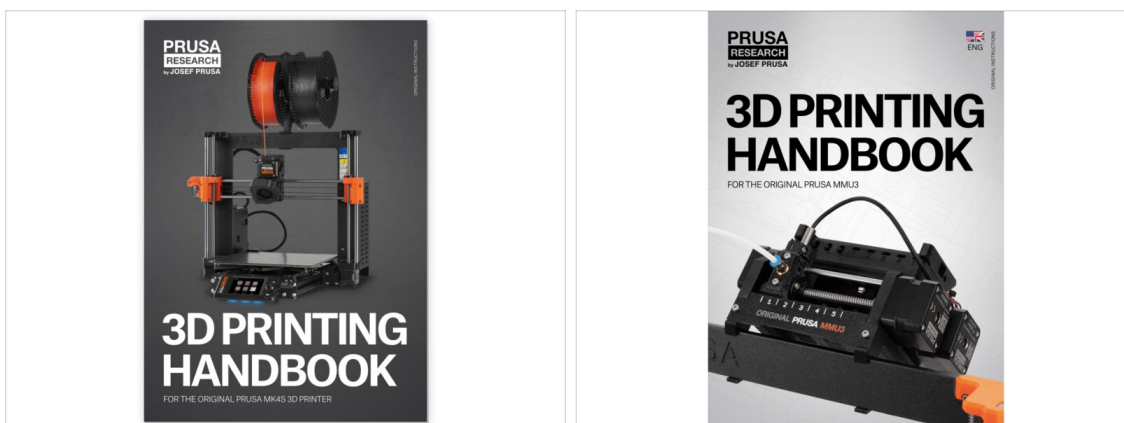
## PASO 11 Printable 3D models



- ◆ To further test your new MMU3, have a look at [MMU3 Test Objects Collection on Printables](#).

We recommend printing the cute sheep, which has been the MMU mascot since the beginning.

## PASO 12 Print & Follow the Handbook

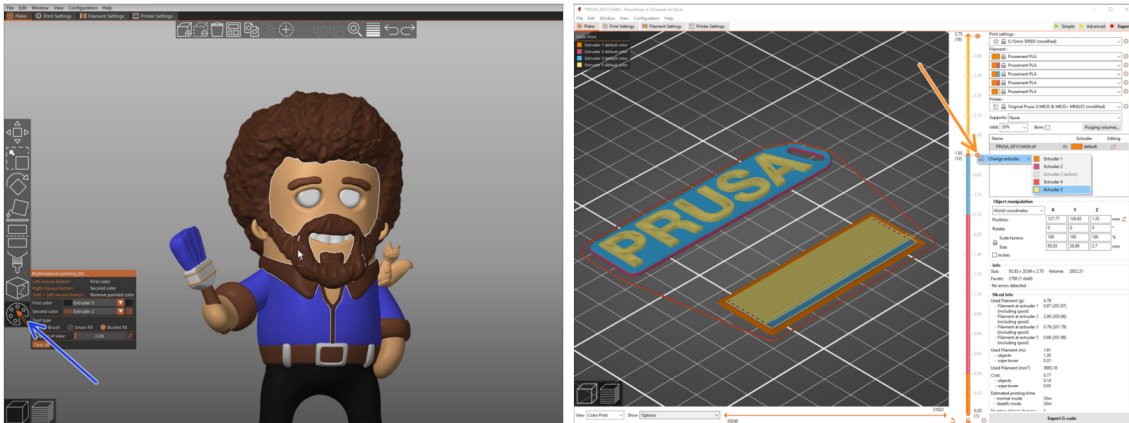


- 📌 Please read the 3D Printing Handbook dedicated to your printer and follow the instructions to set up and use the printer properly. The latest version is always available at [help.prusa3d.com](http://help.prusa3d.com).
- ⚠️ **Lee los capítulos de Descargo de Responsabilidad y las instrucciones de Seguridad.**
- ◆ Start the print and wait until it finishes. In the meantime you can take a look at the **printed Handbook**.
- 📌 All the information regarding calibration, how to organise the printer, buffer, spools, or troubleshooting tips are all in the printed or online **3D Printing Handbook** for **MMU3**.

To download the **Handbook** or if you encounter any issues, please visit our knowledge base at: <http://help.prusa3d.com/en/tag/mmu3/>

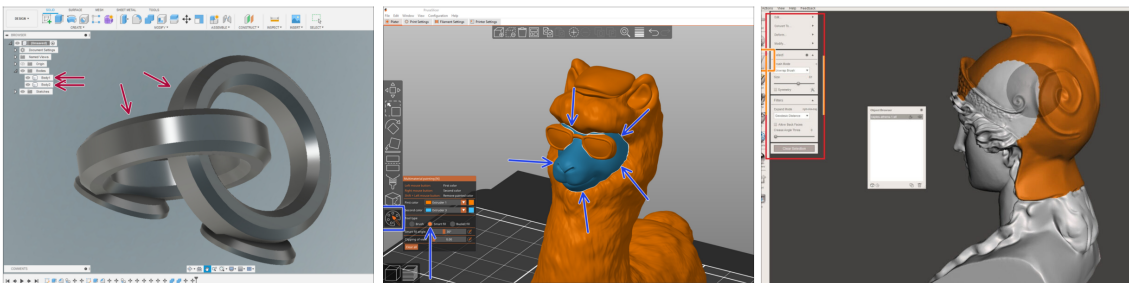
- ◆ If you are having any issues while printing, follow the on-screen instructions or visit the link from the LCD screen.

## PASO 13 Preparación del código G / preparación de modelos personalizados.



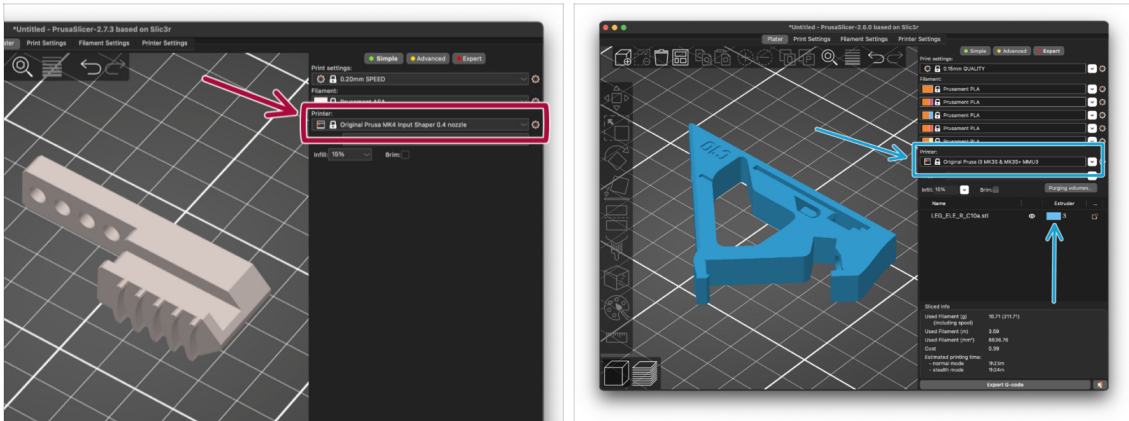
- Already printed all the bundled multi-material models from us as well as those seen at <http://Printables.com>? **Time to print your own designs!**
- The simplest way of making a single-body object colorful is the **MMU Painting function** in PrusaSlicer.
- Basic steps for the manual method are described in our **G-code preparation for multi material print** section.
- For printing logos or text labels, you might also find the **automatic color change at a given layer height** useful. Simply, slice an object, select a certain layer height, click the small orange "+" icon next to the height marker and select the desired MMU filament position (Extruder number).

## PASO 14 Creando tus propios modelos 3D Multi material



- If you have designed a model with multiple bodies, you may find the **Exporting model from Fusion 360** guide useful.
- If you are designing a single-body model, part of which should be MMU-Painted, make sure there is a sharp line surrounding each distinct part so that you can use the **MMU Painting's Smart-fill** function later on in **PrusaSlicer**.
- If you have an intricate STL file that can't be MMU-Painted easily, you can try the more sophisticated way of **Splitting STL with single compact part** or **Splitting STL into multiple parts** using MeshMixer.

## PASO 15 MMU Single material operation



Did you know that MMU3 unit can also be used to make **single-material printing** more convenient too?

- Puedes dejar hasta cinco de tus materiales favoritos cargados en la unidad MMU.
  - En la MK3.5/MK3.9/**MK4**, utiliza el perfil normal MK3.5/MK3.9/**MK4**, al laminar. La impresora te permitirá elegir qué filamento utilizar.
  - If you know which of the five materials to use already while slicing, you can use the **MMU3 profile** and assign a single color (Extruder number) to the object.
- If one of the filaments runs out, your print might be able to continue automatically with the Spooljoin function.  
Check the [SpoolJoin article](#) for more info.

## This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal grey lines across the entire width of the page, providing a guide for handwriting or typing. The background is a clean, off-white color.



## This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal grey lines across the entire width of the page, providing a guide for writing. The background is a clean, solid white color. There are no margins, text, or other markings present.



## This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal grey lines across its entire width, typical of notebook or composition paper. The background is a solid off-white color, and there are no margins, text, or other markings present.



## This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal grey lines across the entire width of the page, typical of notebook or primary school writing paper. There are no margins, text, or other markings present.

