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Cómo limpiar el sensor de filamento lateral

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Cómo limpiar el sensor de filamento lateral (XL)



help.prusa3d.com/g547481

Escanea el código QR para ver la última versión de este capítulo.



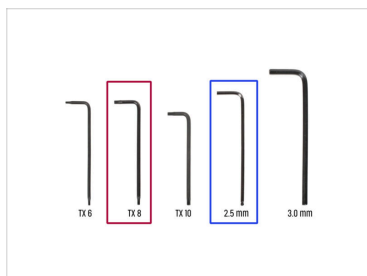
PASO 1 Introducción



◆ This guide will take you through the **disassembly and cleaning of the side filament sensor** on the **Original Prusa XL**.

ⓘ This guide is valid for all versions of the Original Prusa XL and for filament sensors installed on both sides.

PASO 2 Herramientas necesarias



◆ **Para esta guía, prepara:**

◆ Llave Torx TX8

◆ Llave Allen de 2.5mm

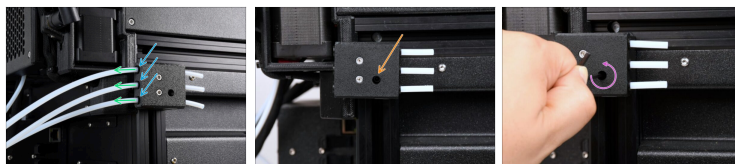
◆ Compressed air - *also known as air duster or canned air*

PASO 3 Printer preparation



- ◆ On single-tool XL, unload filament navigating to *Filament* ->*Unload filament*.
- ⓘ On multi-tool XL, unload filament from each tool that is attached to the filament sensor assembly.
- ◆ For each of these tools, navigate to *Control* ->*Pick/Park Tool* -> *Pick Tool #*.
 - ◆ After the tool is picked, navigate to *Filament* -> *Unload filament*.
 - ◆ Repeat the unloading procedure for each tool that is attached to the filament sensor assembly.
- ◆ After all filaments are unloaded, cool down and turn the printer off.

PASO 4 Detaching the side filament sensor



- i** Each of the PTFE tubes on the side filament sensor is secured by a collet, indicated by the blue arrows.
- Push on one of the extruder PTFE tube collets.
- At the same time gently pull out the extruder PTFE tube from the filament sensor assembly.
- Repeat the procedure for the remaining PTFE tubes.
- The filament sensor assembly has a hole indicated by the arrow. Inside the hole is a M3x12 screw.
- Insert the 2.5mm Allen key in the hole, and loosen the M3x12 screw, to detach the side filament sensor from the rest of the printer.

PASO 5 Disconnecting the filament sensor cable



⚠ The connector has a safety latch. **It is necessary to press the latch before disconnecting.** Otherwise, the connector may get damaged.

- ◆ Gently press the latch on the connector to disconnect the filament sensor cable.

PASO 6 Disassembling the side filament sensor



- ◆ Loosen the M3x8 screws using the 2.5mm Allen key
- ◆ Identify a small hole in the filament-sensor-insert
- ◆ Insert an Allen key in the hole and use it as a lever to push up the filament-sensor-insert.

PASO 7 Accessing and cleaning the mechanism



- Using the TX 8, loosen the two M3x10rT screws.
 - ⚠ Loosen the screws carefully. Avoid scratching the electronic board with the TX 8.
- The mechanism is made of three systems of ball, magnet and spring.
- Blow canned air into the spaces where the spring is visible to clean the mechanism.

PASO 8 Reassembling the filament sensor side



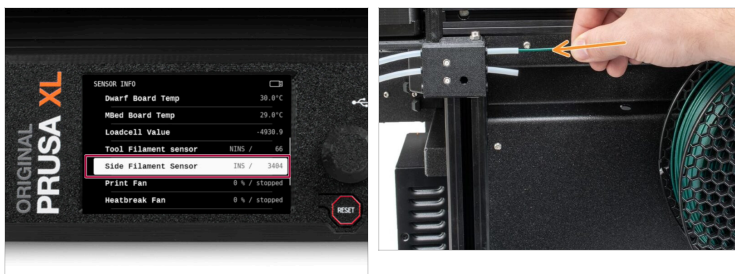
- Using the TX 8, tighten the two M3x10rT screws.
 - ⚠ Do not overtighten the screws!
 - ⚠ Avoid scratching the electronic board during the procedure.
- Push the filament-sensor-insert into the filament-sensor-case
- Using the 2.5mm Allen key, tighten the two M3x8 screws.

PASO 9 Reassembling side filament sensor



- Plug the filament sensor cable into its connector.
- Insert the M3x12 screw using the 2.5mm Allen key through the hole and tighten the screw.
- Push each PTFE tube into its slot.
- Gently pull each PTFE tube back, this will push out the black collet in the side filament sensor and lock the tube.

PASO 10 Comprobación final



- For the following step, please prepare a small piece of filament.
- Switch the printer on.
 - On multi-tool XL, navigate to *Control* ->*Pick/Park Tool* ->*Pick Tool #*. Pick one of the tools attached to the affected side filament sensor.
- Navigate to *Info* ->*Sensor Info* ->*Side filament sensor*.
- From this submenu, the status can be checked. The possible statuses are **INS** (inserted) and **NINS** (not inserted).
- Insert a piece of filament from the side filament sensor.
- Check if the status changes from **NINS** to **INS** and vice versa according to the filament insertion.
- On multi-tool XL, navigate to *Control* ->*Pick/Park Tool* ->*Park Current Tool*. Repeat the step for each of the tools attached to the same side filament sensor.

PASO 11 ¡Ya está!



- ◆ **That's it, good job!**
You just successfully cleaned the filament sensor mechanism on your Original Prusa XL.
