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1. Introduzione

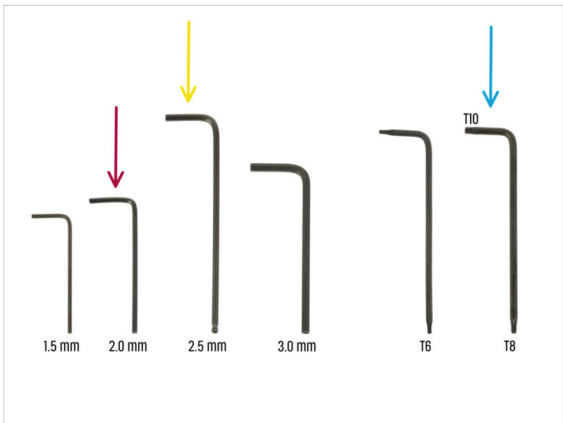
PASSO 1 Preparing the upgrade kit

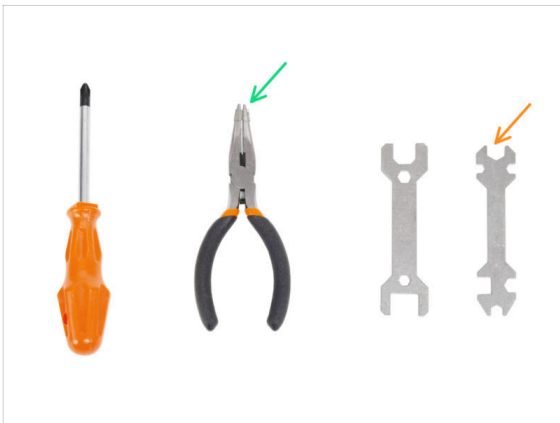
- This manual guides you through upgrading your **Prusa CORE One+ to CORE One+ (Gen 2)**.
- Prepara il kit d'aggiornamento ricevuto da Prusa Research.

ⓘ Tutte le parti in plastica necessarie sono incluse nel kit.

Le parti stampabili sono anche disponibili su Printables.com.

PASSO 2 Attrezzi Necessari





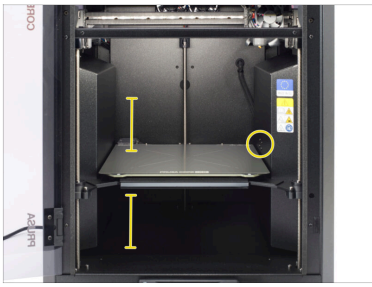
The tools needed for this upgrade are **not included in the kit**. Please use the tools that came with your original CORE One+ printer.

- **Per i capitoli successivi, prepara questi strumenti:**
- Chiave a brugola da 2.0mm
- Chiave a brugola da 2.5mm
- Chiave / Cacciavite Torx T10
- Pinza a becchi lunghi
- Chiave universale con l'apertura grande come un dado M3.

PASSO 3 Scaricare il filamento

- Unload the filament. Visit the menu **Filament** and select **Unload filament**.
- Scarica il filamento dalla stampante.
- Rimuovi la bobina di filamento dalla stampante.

PASSO 4 Spostare l'asse Z



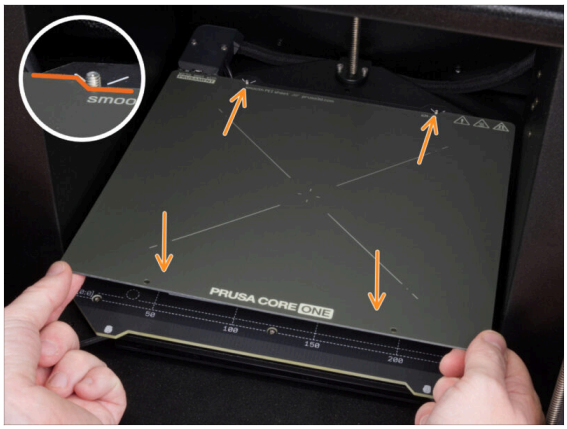
ⓘ Before you begin, move the heatbed to an accessible position.

⚠ Durante questa fase, **tieni lo sportello della stampante chiuso** e non mettere le mani all'interno.

- Nel menu della stampante, vai su *Controllo -> Auto Home*.
- After Auto Home, move the heatbed down via *Control -> Move Axis -> Move Z* until the highlighted screws and the underside of the heatbed are accessible (minimum **200 mm**).

  ⓘ In questo modo entrambe le aree saranno facilmente accessibili durante la procedura, dato che dovranno essere gestite in seguito nel manuale.

PASSO 5 Scollegare la stampante

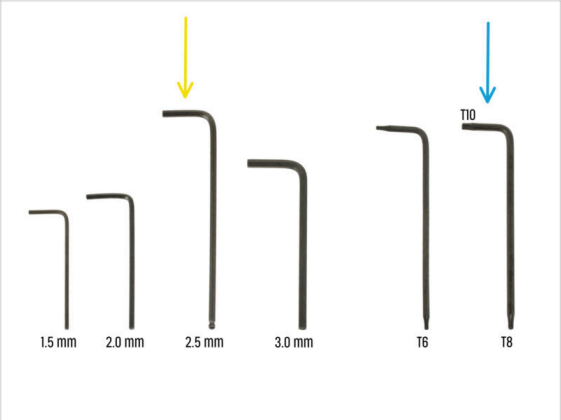


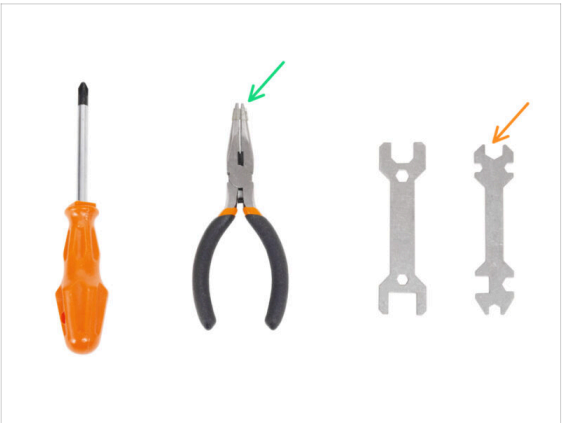
⚠ Before you begin, make sure the **printer has cooled down** to ambient temperature.

- Spegni la stampante utilizzando l'interruttore sul retro.
- Scollegare la stampante dall'alimentazione.
- Rimuovi la piastra d'acciaio (facoltativo).

2. Smontaggio della stampante

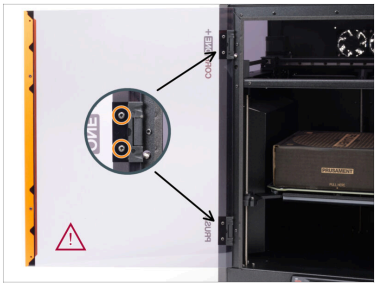
PASSO 1 Strumenti

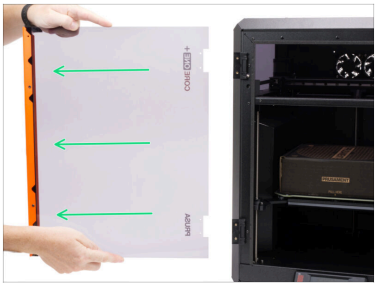




- **Attrezzi necessari per questo capitolo:**
- Chiave a brugola da 2.5mm
- Chiave / Cacciavite T10
- Pinza a becchi lunghi
- Chiave universale

PASSO 2 Rimuovere il pannello dello sportello





We recommend **protecting the heatbed** during handling. An empty Prusament box is an ideal protective layer.

- For easier and safer handling during the upgrade, remove the door. **Proceed carefully** to avoid injury or damage to the door panel.
- Allenta e rimuovi le due viti M3x5rT che fissano il pannello dello sportello in entrambe le cerniere.

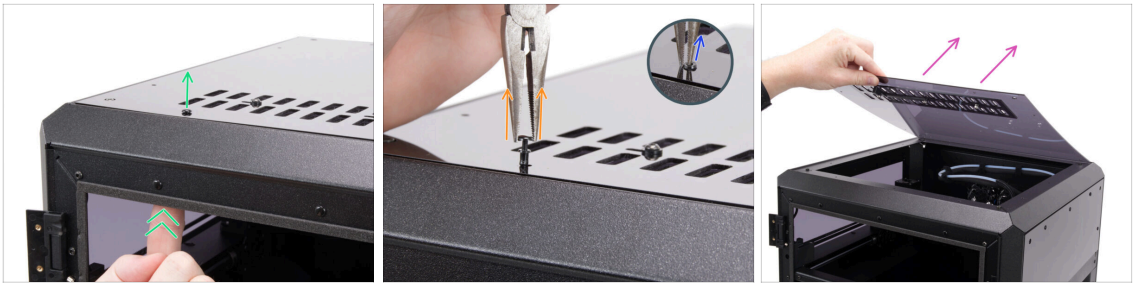
È essenziale **tenere saldamente il pannello dello sportello** mentre si allentano le viti per evitare che cada.

Start removing the screws from the lowest.

- Carefully slide the door panel out of the hinges. Leave the hinges open for the remainder of the upgrade.
- Place the door panel and the four screws in a **clean and safe** area to avoid any damage.

Ensure that the shaft that is inside the hinge does not fall out. If the shaft falls out, insert it back in, or set it aside along with the hinge part. We will mount these back on at the end of the assembly.

PASSO 3 Rimuovere il pannello superiore



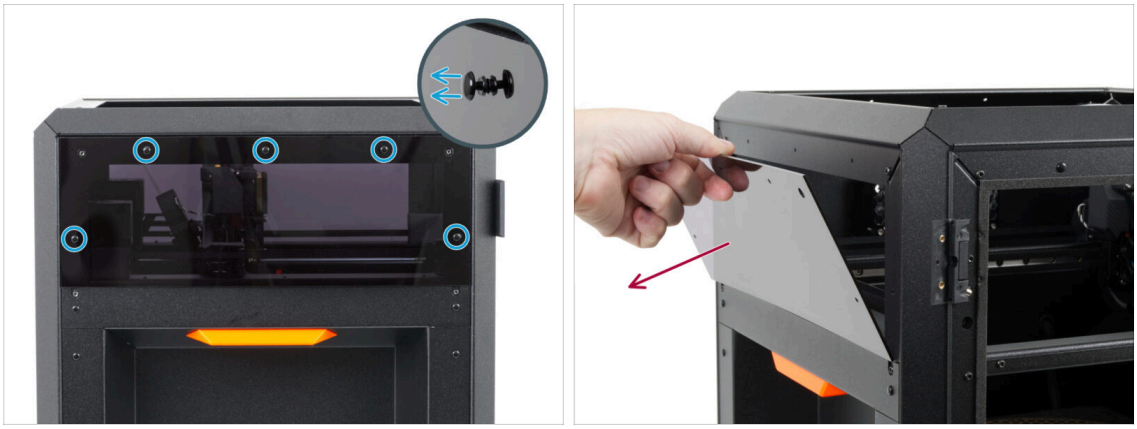
- From the inside, gently push out all the nylon rivets securing the top cover with your finger.
- Using needle-nose pliers, carefully grasp the rivet head with the tip of the pliers and pull it out.

  ⓘ You can also use the previously mentioned **Core-one-snap-rivet-remover.**

⚠ Be careful not to damage the top panel.

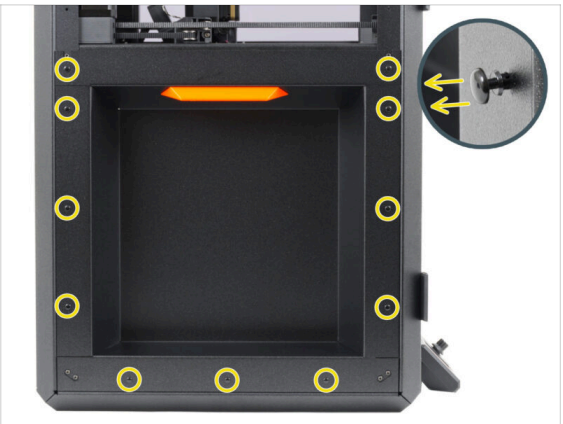
- If the lower part of a rivet remains in the panel, grasp it with pliers and remove it as well.
- Remove the top panel from the printer.

PASSO 4 Rimozione della copertura laterale sinistra



- Using the same procedure, remove all five nylon rivets securing the left side cover.
- Remove the side cover from the printer.
- Set it aside in a safe, clean place.

PASSO 5 Rimozione del pannello metallico sinistro

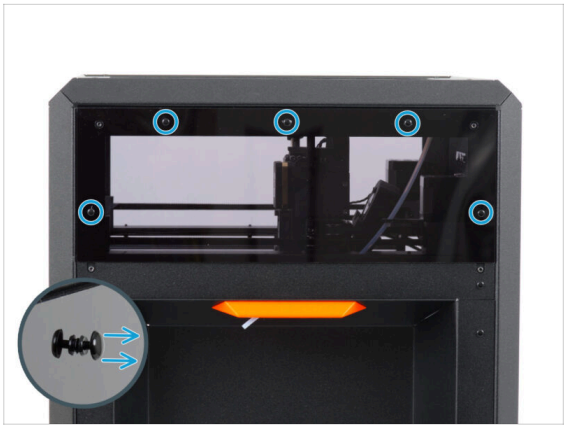


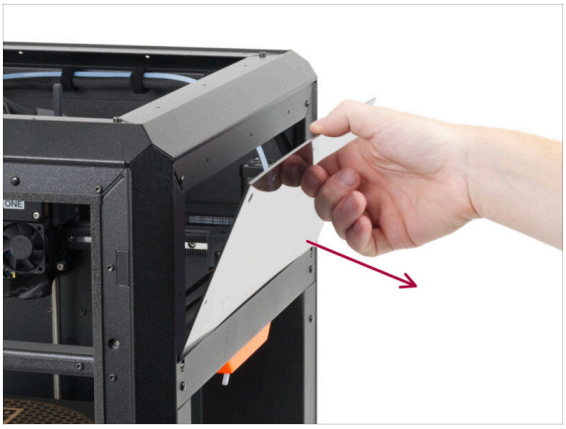
- Remove the eleven nylon rivets securing the left steel panel.

  Start with the bottom rivets. **Support the panel by hand** when removing the last rivets to prevent it from falling.

- Remove the metal panel from the printer.

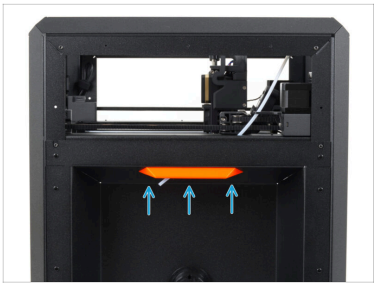
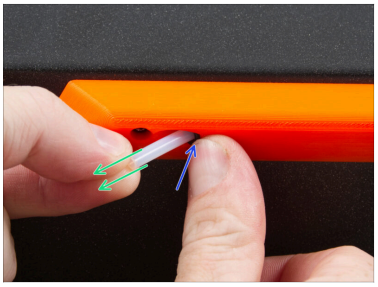
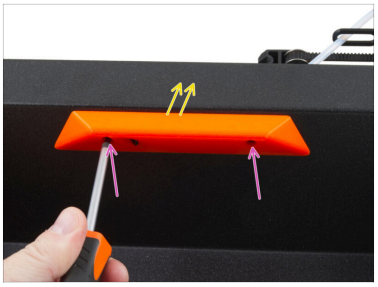
PASSO 6 Rimuovere la copertura destra





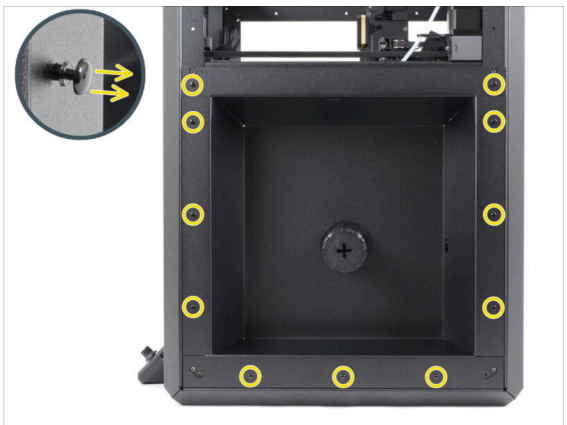
- Using the same procedure, remove all five nylon rivets securing the right side cover.
- Remove the side cover from the printer.
- Set it aside in a safe, clean place.

PASSO 7 Rimozione della maniglia destra

- Move to the opposite side of the printer and focus on the underside of the orange handle.
- Press the black collet on the PTFE tube into the handle to unlock the tube.
- While holding the collet pressed in, pull out the PTFE tube.
- Using the T10 screwdriver release two M3x8rT screws securing the handle and the filament sensor.
- Remove the handle from the printer.

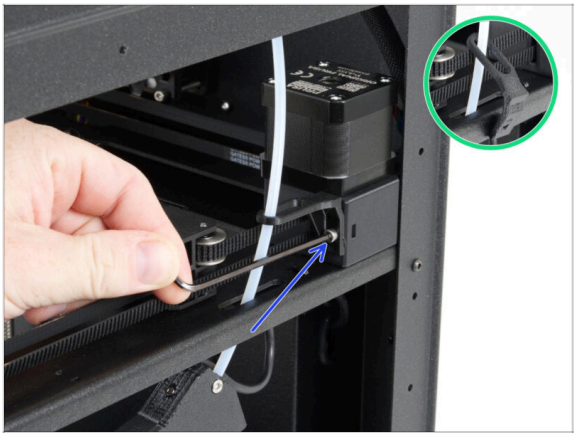
PASSO 8 Rimuovere il pannello destro



- Remove the eleven nylon rivets securing the right steel panel.

  Start with the bottom rivets. **Support the panel by hand** when removing the last rivets to prevent it from falling.
- Remove the metal panel from the printer.

PASSO 9 Rimozione della guida Bowden



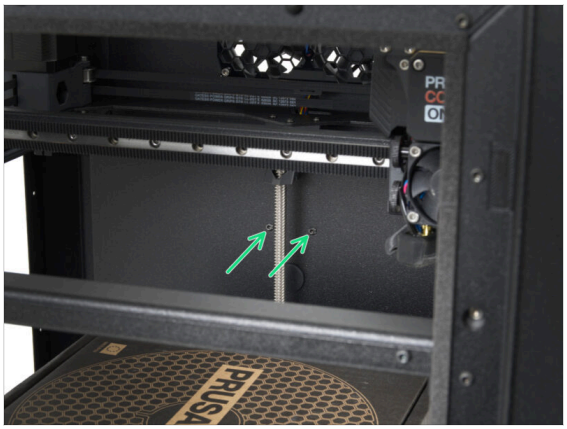
- Remove the M3x10 screw and remove the Bowden guide from the motor mount.

  Pro tip: Once the Bowden guide is removed, thread the M3x10 screw back into the motor mount by a few turns. This will keep the nut in place and make reassembly easier.

- Leave the Bowden guide hanging on the PTFE tube.

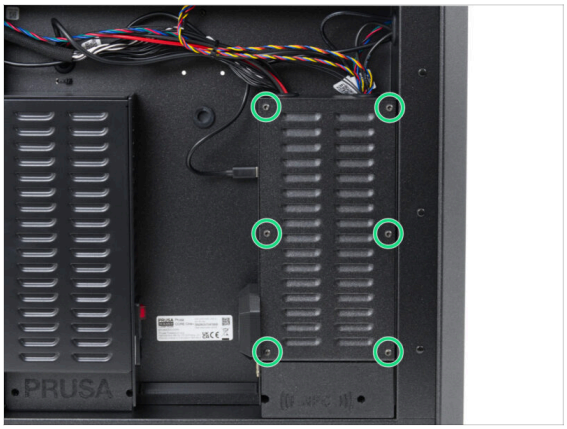
  The Bowden guide does not need to be removed completely. Loosen it to improve access for later steps.

PASSO 10 Scoprire i cavi



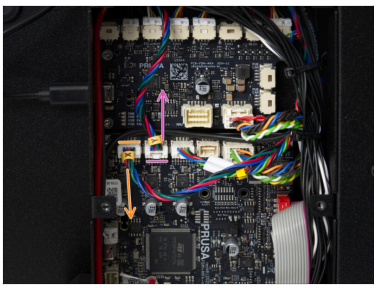
- On the inside of the printer, remove the two M3x4rT screws holding the back cover.
- On the back of the printer, slide the center cover down to unlock it, then remove it.

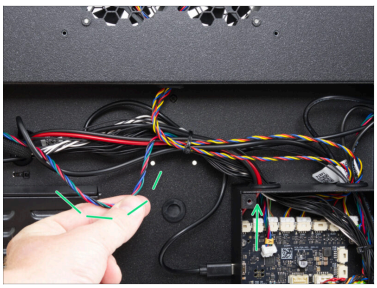
PASSO 11 Scoperchiare l'elettroinica xBuddy

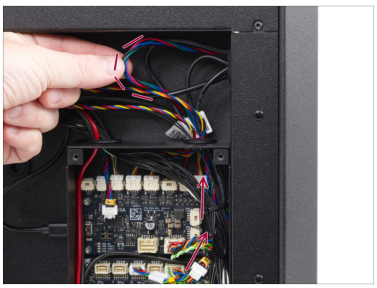


- Unscrew all six M3x4rT screws securing the electronics sheet (xBuddy box cover).
- Slide the xBuddy box cover out of the electronics box and remove it from the printer.

PASSO 12 Scollegare i cavi del motore





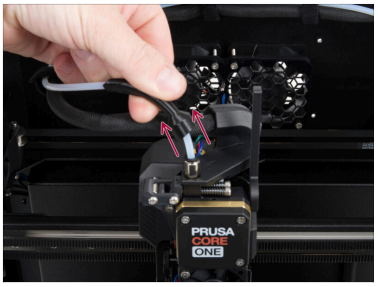


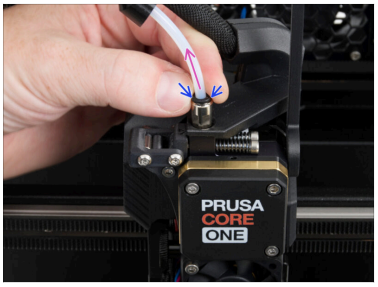
⚠ The connectors have a safety latch that must be pressed when disconnecting.

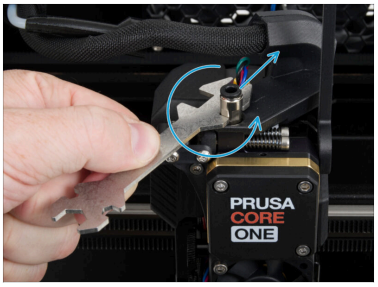
- Disconnect the X motor cable from the first connector on the left.
- Disconnect the Y motor cable from the second connector on the left.
- Gently pull the Y motor cable slightly to create some slack while keeping the connector inside the electronics compartment.
- Gently pull the X motor cable slightly to create some slack while keeping the connector inside the electronics compartment.

⚠ If you feel resistance, **stop pulling**. If the cable cannot be moved at all, cut the zip ties securing the cable bundles. **Be careful not to damage any cables**.

PASSO 13 Scollegare il tubo in PTFE

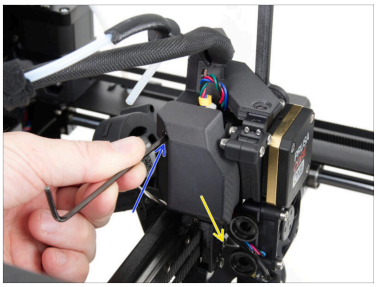


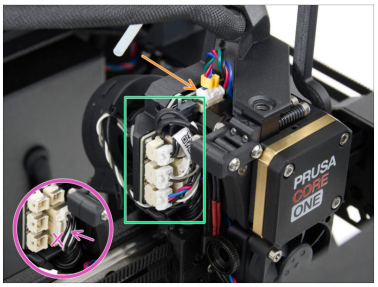




- Move to the inside of the printer.
- Slide the bowden-bend over the fitting in the Nextruder.
- Press the black collet in the fitting down, preferably using two fingers.
- Pull the PTFE tube out of the fitting.
- Using the 8mm cutout on the Universal wrench, remove the M5-4 fitting.

PASSO 14 Disconnecting the Nextruder cables - left side





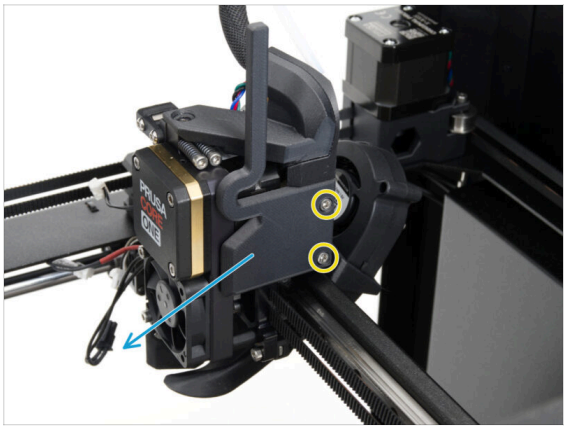
- Utilizzando la chiave a brugola da 2,5 mm, rimuovi la vite M3x10 che tiene il coperchio laterale.
- Togli la copertura.

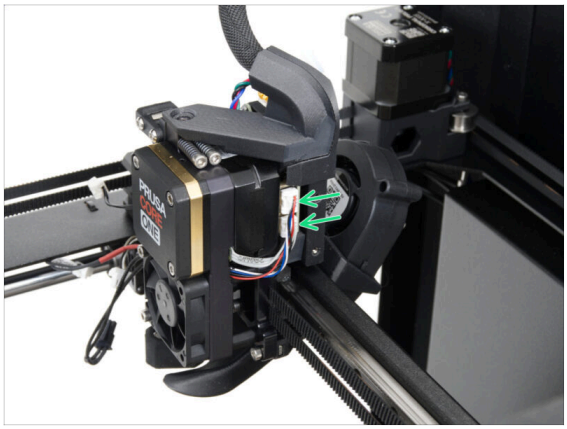
  ⓘ *Pro tip: Keep the screws and nuts with the removed parts whenever possible. This will make reassembly easier.*

⚠ The connectors have a safety latch that **must be pressed when disconnecting**.

- Disconnect all cables on the left side of the Nextruder.
  - Do not disconnect the Nextruder main cable connector.
- Disconnect the extruder motor cable on the top side of the Nextruder.

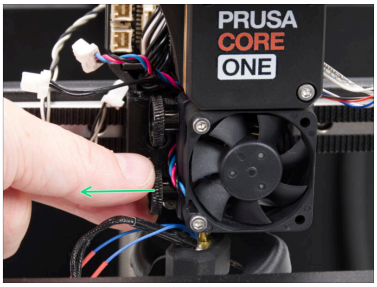
PASSO 15 Disconnecting the Nextruder cables - right side

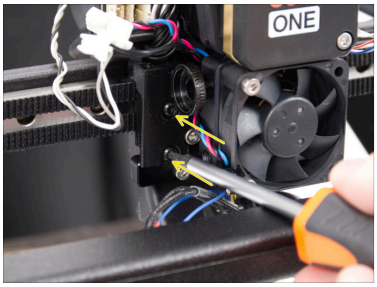


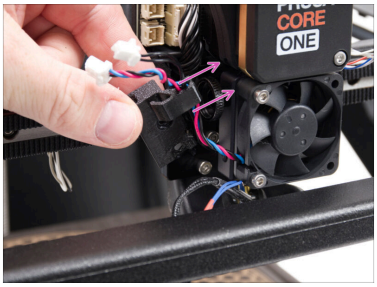


- Using the Allen key, remove two M3x6 screws securing the right cover on the Nextruder.
- Togli la copertura.
- ⚠ The connectors have a safety latch that **must be pressed when disconnecting**.
- Disconnect both cables from the right side of the LoveBoard.

PASSO 16 Rimozione delle clip dei cavi

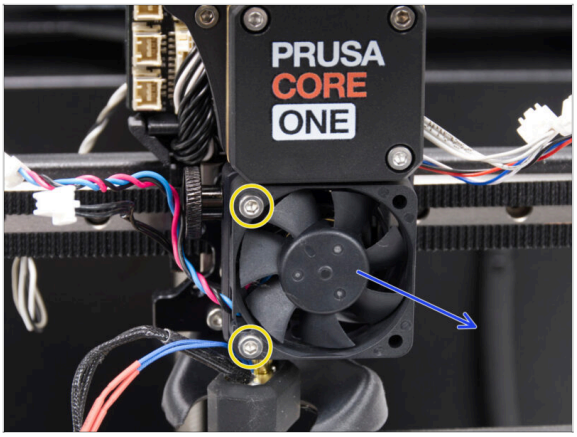






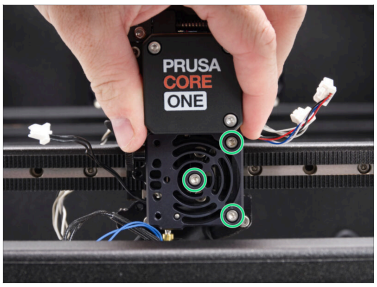
- Togli la vite a testa zigrinata inferiore.
  - ⓘ Leave the upper thumb screw in place. It provides access to the screw on the Cable-clip.
- Remove the two M3x4rT screws securing the Cable-clip, then remove the cable clip from the printer.
- Unhook all cables from the cable clip.

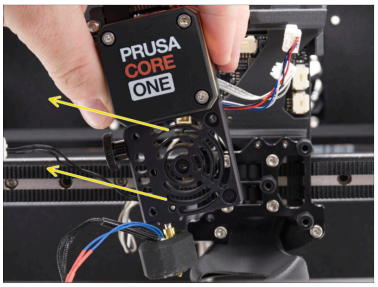
PASSO 17 Staccare la ventola del dissipatore



- Using the Allen key, remove two M3x18 screws securing the heatsink fan.
- Remove the heatsink fan from the printer.

PASSO 18 Rimozione del gruppo Nextruder

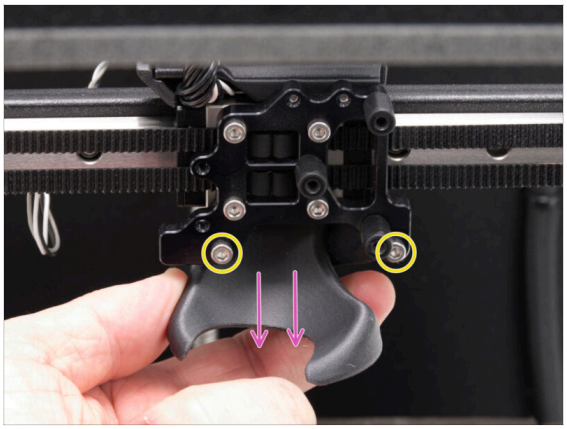




- Remove three M3x10 screws securing the Nextruder assembly to the X-axis.

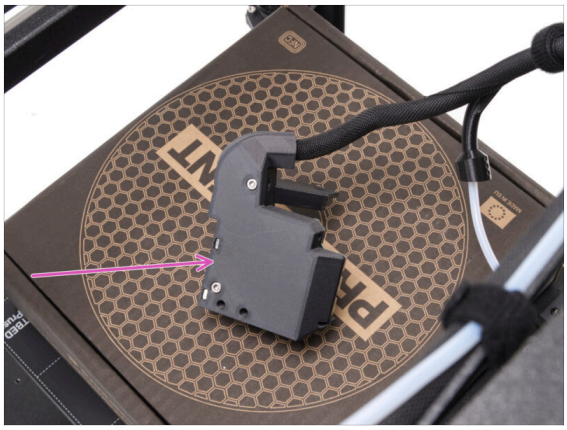
  ⚠ **CAUTION:** While loosening the last screw, **hold the Nextruder to prevent it from falling** and damaging the printer.
- Remove the Nextruder assembly from the printer.
- Set the Nextruder assembly aside in a safe place.

PASSO 19 Rimuovere il convogliatore ventola



- Allenta e rimuovi le due viti M3x10 che fissano il convogliatore della ventola al supporto del Nextruder.
- Remove the fan shroud assembly with the print fan from the printer.
- Set the print fan assembly aside in a safe place.

PASSO 20 Rimozione del gruppo LoveBoard



- From the back of the LoveBoard assembly, loosen the two M3x10 screws through the access holes to release the assembly.

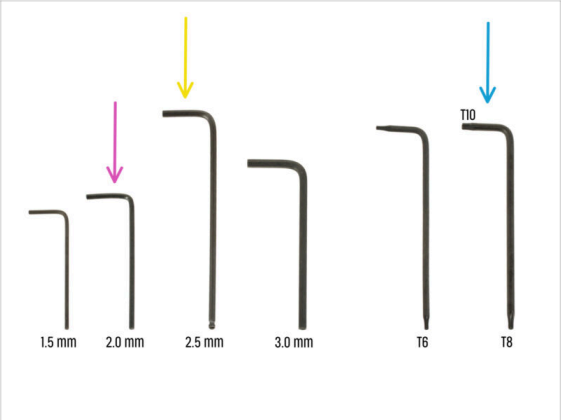
  ⓘ Le viti rimangono all'interno del gruppo.
- Place the LoveBoard assembly on the cardboard box placed on the heatbed.

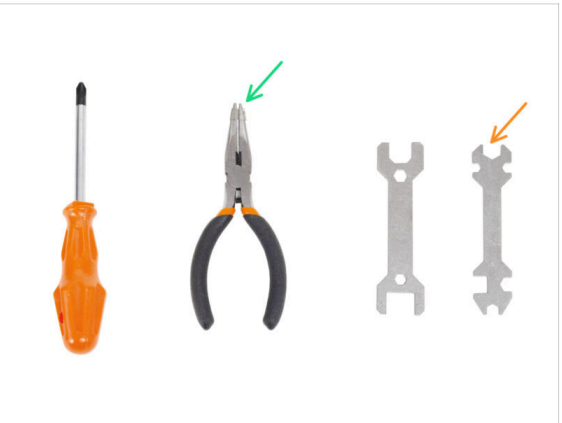
PASSO 21 Capitolo completato

- **Congratulations!** You have completed the partial disassembly of the printer and prepared it for the upgrade.
- Proceed to the **next chapter**.

3. Aggiornamento delle cinghie

PASSO 1 Strumenti



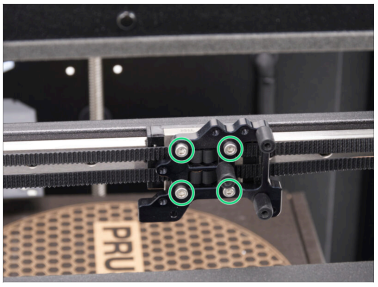
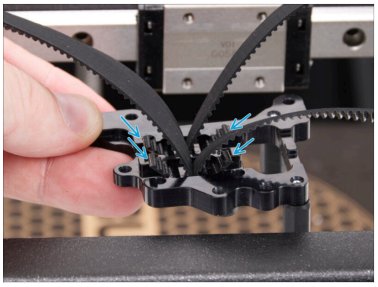
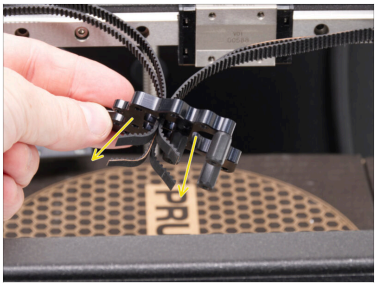


- **Attrezzi necessari per questo capitolo:**
- Chiave a brugola da 2.0mm
- Chiave a brugola da 2.5mm
- Chiave / Cacciavite T10
- Pinza a becchi lunghi
- Chiave universale

PASSO 2 Allentare le cinghie

- Using a 2.5 mm Allen key, remove the left belt tensioner.
  - Fai attenzione, il tenditore potrebbe cadere una volta allentato.
- Using the same method, loosen the belt tensioner on the right side.
- Ensure the M3nS nuts in the Belt-tensioner-pulleys do not fall out!

PASSO 3 Sbloccare le cinghie

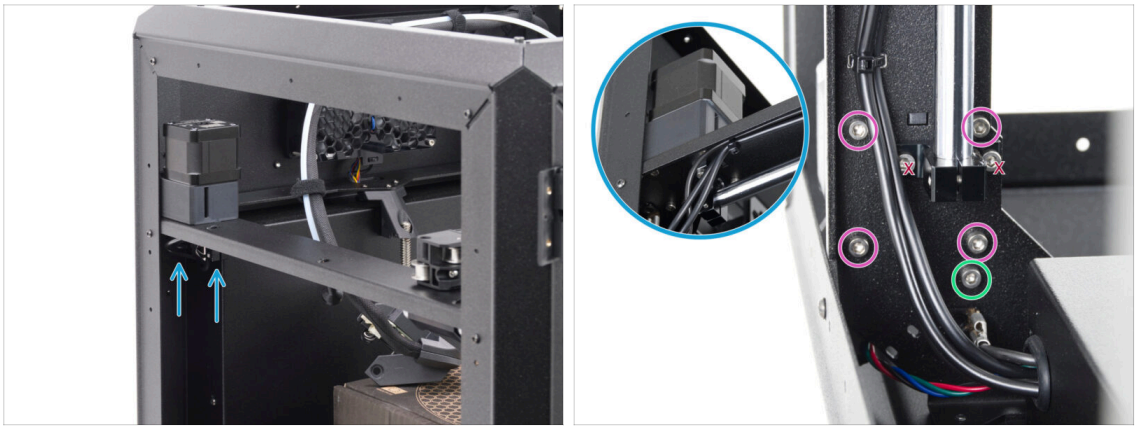
- Remove the four M3x10 screws securing the Nextruder holder.
- From the back of the holder, push all belt ends through the holder.
- Slide the Nextruder holder off the belts.

PASSO 4 Rimozione delle cinghie

- Togli entrambe le cinghie dal gruppo.

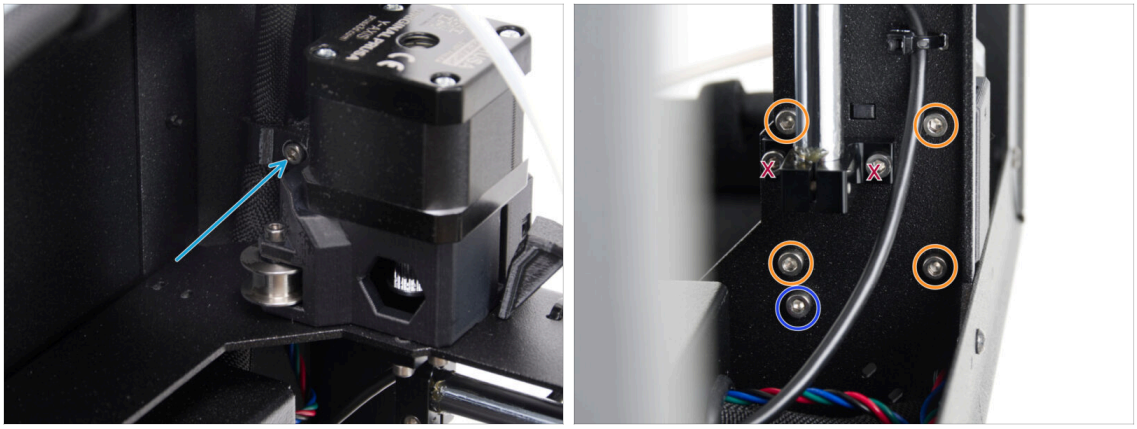
  Caution: The belt tensioner idlers are **still attached to the belts**.

PASSO 5 Liberare il motore sinistro



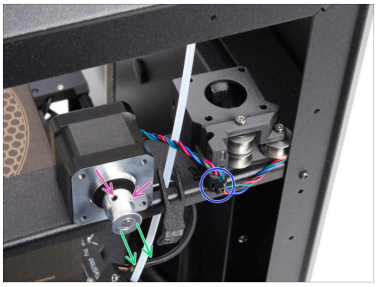
- Move to the underside of the left rear motor.
- Togli le quattro viti M3x35 che fissano il motore al supporto.
- Remove the M3x6 screw securing the motor holder.
- ⚠ Avoid removing the screws securing the rod holder.

PASSO 6 Liberare il motore destro



- Loosen the screw securing the main cable clip and leave it attached to the cable bundle.
  - ⚠ Do not move or reposition the Main-cable-clip on the cable bundle during the upgrade.
- Spostati sul lato inferiore del motore posteriore destro.
- Togli le quattro viti M3x35 che fissano il motore al supporto.
- Remove the M3x6 screw securing the motor holder.
- ⚠ Avoid removing the screws securing the rod holder.

PASSO 7 Smontaggio del motore destro



We recommend **protecting the heatbed during handling.** An empty Prusament box is an ideal protective layer.

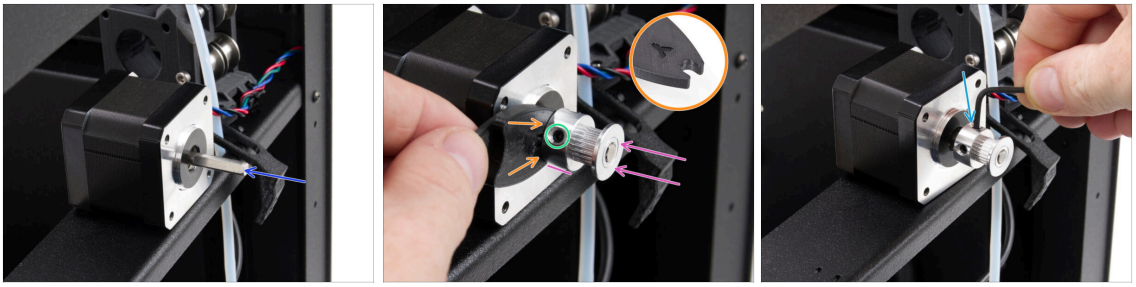
- Concentrati sul motore posteriore destro.
- Remove the motor from the motor holder.
- Place the motor on the edge of the printer frame.
- Using a 2.0 mm Allen key, loosen the two set screws securing the pulley.
- Rimuovi la puleggia.
- Carefully cut the zip tie securing the motor cable to the motor mount.

This pulley will no longer be used. Set it aside or discard it to **avoid confusing it with the new one**.

PASSO 8 Nuova puleggia: preparazione dei componenti (motore destro)

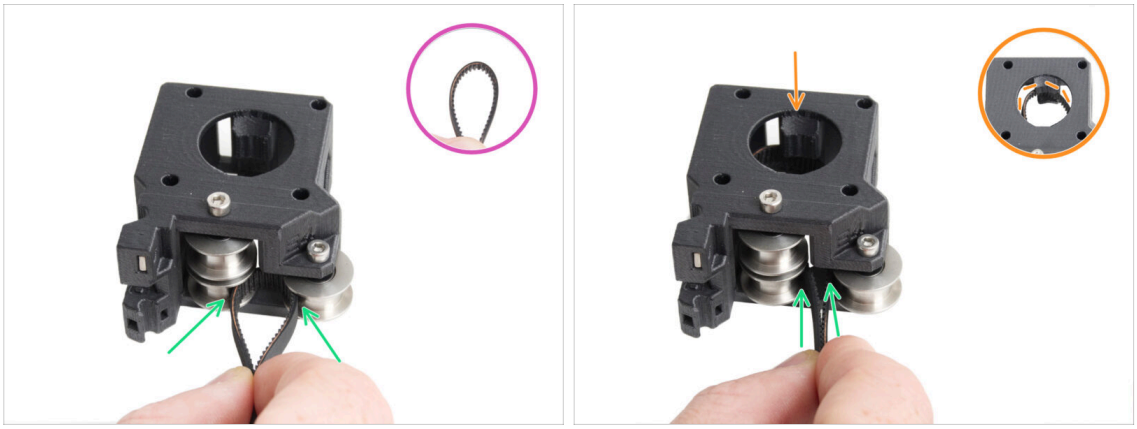
- **Per i seguenti passi prepara:**
- Puleggia T21-1.5GT (1x)
- Cinghia 1,5 GT (2x)
- Pulley-offset-tool (1x)

PASSO 9 Installazione della nuova puleggia (motore destro)



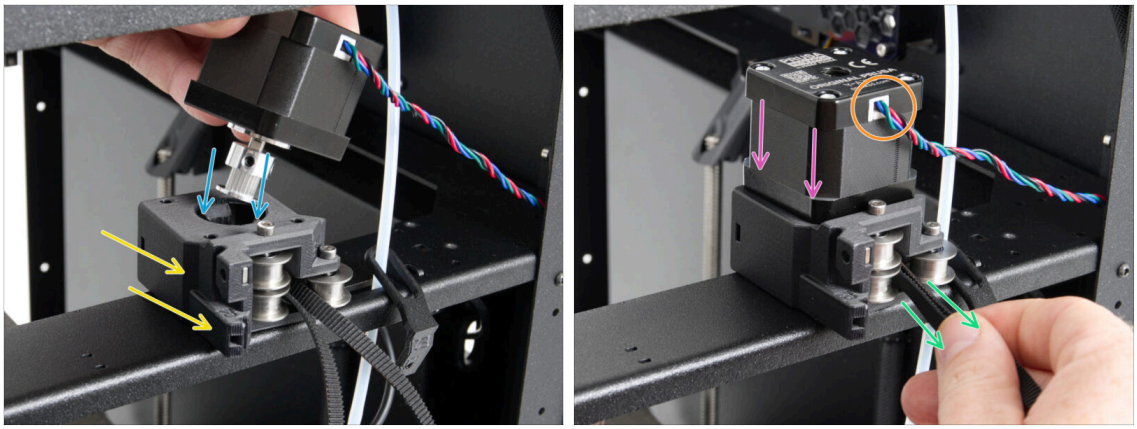
- Rotate the motor shaft so that the flat faces you. **Do not rotate the shaft any further.**
- Fai scivolare la nuova puleggia T21-1.5GT sull'estremità dell'albero, con il lato della vite di fissaggio **rivolto verso il motore** .
- Insert the Pulley-offset-tool, with the **side marked "Y"**, between the motor and the pulley to set the correct distance.
- Press the pulley against the Pulley-offset-tool and tighten the set screw **against the flat on the motor shaft**.
- Rotate the pulley and tighten the second set screw.

PASSO 10 Inserimento della cinghia inferiore (motore destro)



- Remove the motor mount from the printer.
- Take one of the belts and form a loop with the **teeth facing inward**.
- Push the belt loop into the motor mount **between the two lower idlers**.
- Viewed from the top, the belt loop should follow the circular cutout in the motor mount as closely as possible.

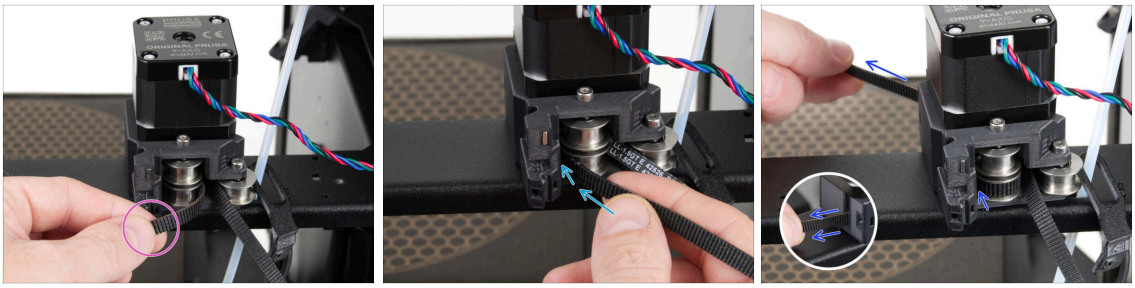
PASSO 11 Fissaggio della cinghia inferiore (motore destro)



Throughout the process, make sure the **belt does not slip out of the assembly**.

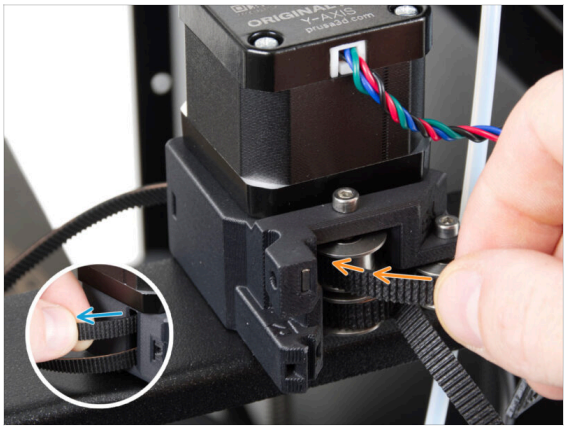
- Place the motor mount onto the printer frame. The side with the two idlers must be facing down and towards you.
- Insert the motor with the pulley into the belt loop inside the motor mount.
- Fully seat the motor against the motor mount.
  - Orient it so that the **motor cable faces outward** (towards you).
- Gently pull both ends of the belts to secure the belt loop around the pulley.

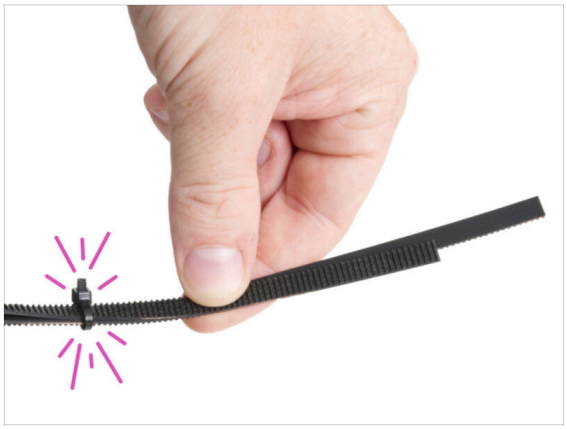
PASSO 12 Orientamento della cinghia inferiore (motore destro)



- Grasp the belt coming from the left idler.
- Route the belt around the idler from the left side and insert it into the motor mount.
- Sul lato opposto, controlla che la cinghia esca dall'apertura e tirala fuori finché non sporge di circa 15 cm (6 pollici).

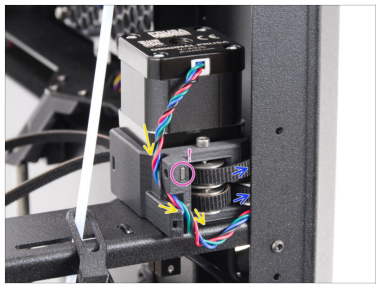
PASSO 13 Orientamento della cinghia superiore (motore destro)

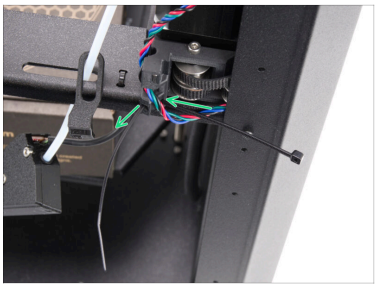


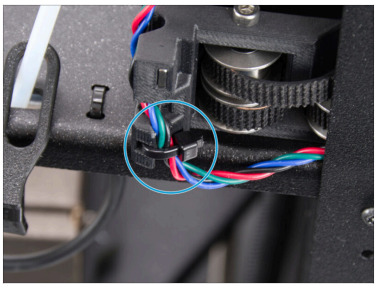


- Prendi la seconda cinghia nuova.
- Fai passare un'estremità della cinghia attorno alla **puleggia superiore** partendo dal lato sinistro. Assicurati che i **denti siano rivolti nella direzione opposta** rispetto alla puleggia.
- From the opposite side, watch for the belt to come out through the opening.
  - Pull it through until approximately the same length of belt is sticking out - around 15 cm (6 in).
- *Pro tip:* To prevent the belts from being accidentally pulled out, loosely secure their ends together with a zip tie.

PASSO 14 Fissaggio del cavo del motore (motore destro)



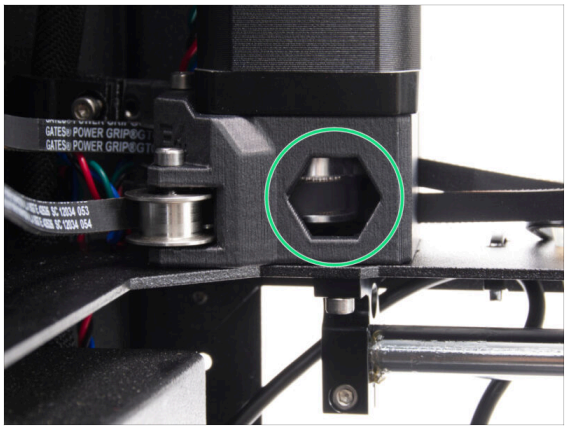




Throughout the process, **make sure the belts do not slip out of the assembly**.

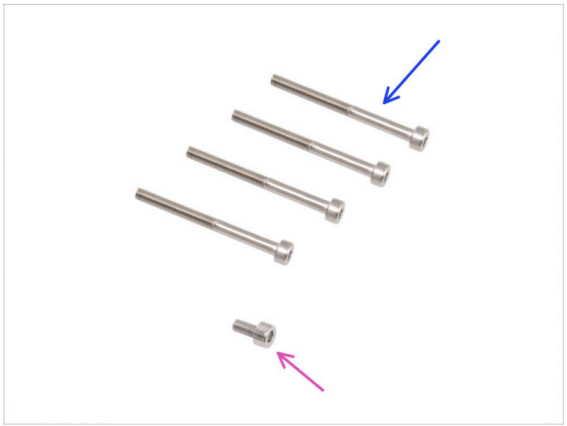
- Move the assembly closer to the rear corner of the printer.
- Route the free ends of the belts toward the rear of the printer. Leave them loose for now.
- Make sure the M3nN nut **is still inserted** in the motor mount and has not fallen out.
  - **If the M3nN nut has fallen out**, reinsert it fully into the part.
- Route the motor cable through the cable channel, as shown in the picture.
- Push the zip tie through the hole in the printed part.
- Carefully secure the cable with the zip tie.

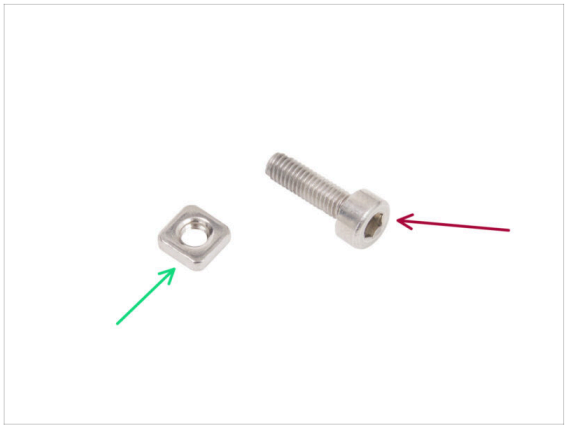
PASSO 15 Fissare il motore destro



- Rotate the motor assembly with the motor mount into the correct position. The **belt pulleys must face the rear side** of the printer.
  - The motor mount has a tab on the bottom side that must fit into the rectangular cutout in the frame.
- From the inner side of the printer, check that the lower belt is seated on the pulley throught the hexa hole in the motor-mount.

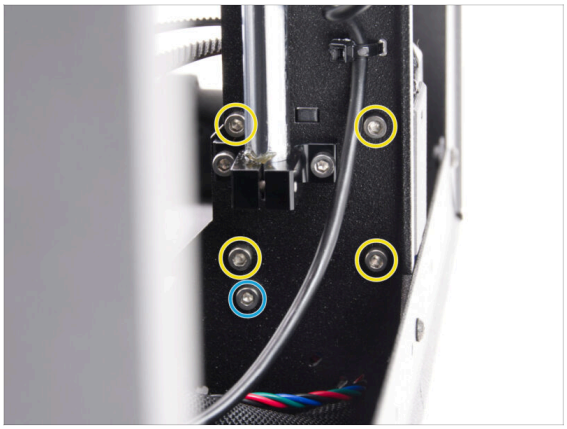
PASSO 16 Viti del motore destro: preparazione dei componenti

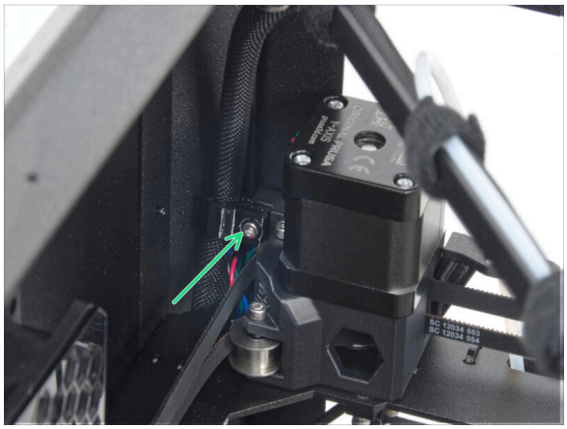




- **Per i seguenti passi prepara:**
- Vite M3x35 (4x) *rimossa in precedenza*
- Vite M3x6 (1x) *rimossa in precedenza*
- M3nS nut (1x) you removed earlier*may have remained inserted from the outer side of the motor mount.*
- Vite M3x10 (1x) *rimossa in precedenza*

PASSO 17 Stringere il motore destro

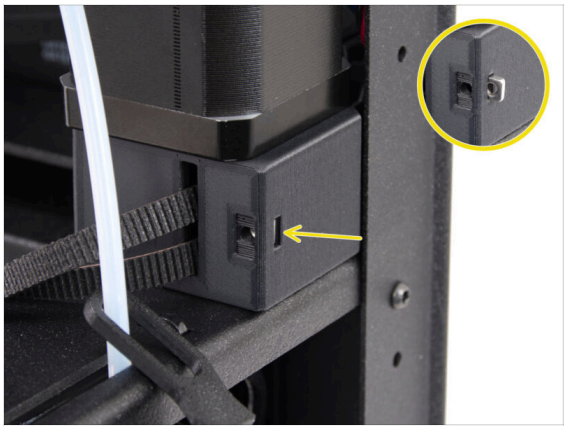


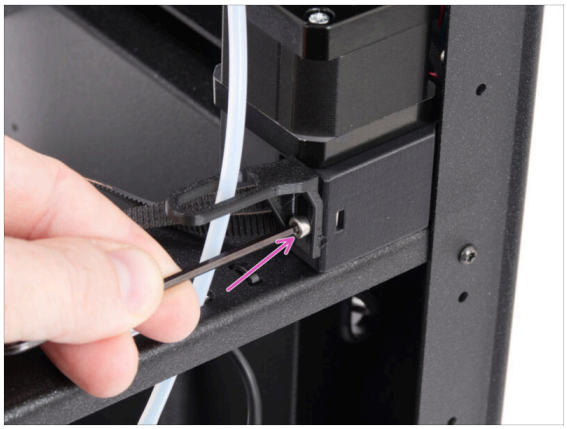


- Fissa l'intero gruppo motore dal lato inferiore del telaio usando quattro viti M3x35.
- Finally, secure the motor mount with an M3x6 screw.

  ⚠ **Do not overtighten the M3x6 screw.** The screw is secured directly into a plastic part and excessive tightening can damage the thread.
- Dal lato superiore, dietro al motore, rimonta la Main-cable-clip sul supporto del motore usando la vite M3x10 già inserita.

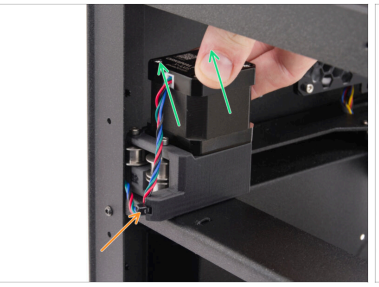
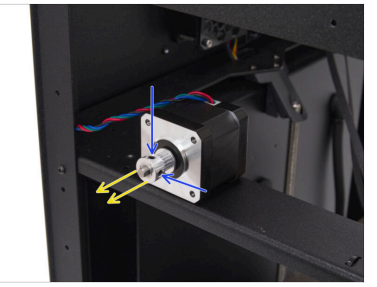
PASSO 18 Fissaggio della guida Bowden





- From the outer side of the motor mount, insert the M3nN nut if it is not already inserted.
- Attach the Bowden-guide to the motor-mount using the M3x10 screw.

PASSO 19 Smontaggio del motore sinistro

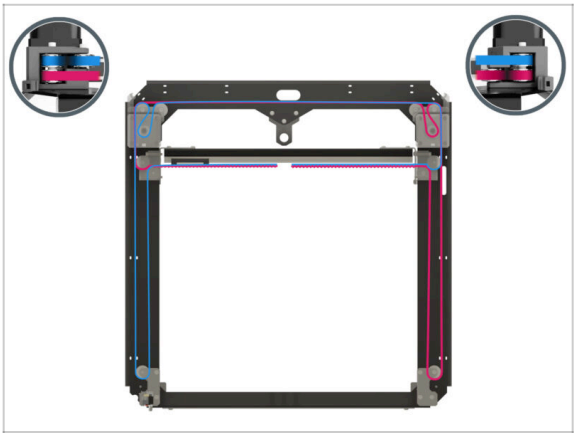
- Concentrati sul motore posteriore sinistro.
- Rotate the motor assembly with the cable facing outward.
- Carefully cut the zip tie. Be careful not to cut the cable.
- Remove the motor from the motor-mount and remove the motor-mount from the printer.
- Place the motor on the printer frame.
- Using a 2.0 mm Allen key, loosen the two set screws securing the pulley.
- Rimuovi la puleggia.

This pulley will no longer be used. Set it aside or discard it to **avoid confusing it with the new one**.

PASSO 20 Nuova puleggia: preparazione dei componenti (motore sinistro)

- **Per i seguenti passi prepara:**
- Puleggia T21-1.5GT (1x)
- Pulley-offset-tool (1x) *you used it before*

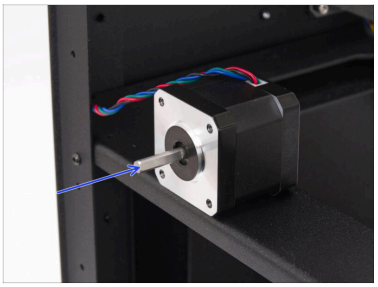
PASSO 21 Panoramica sul percorso delle cinghie

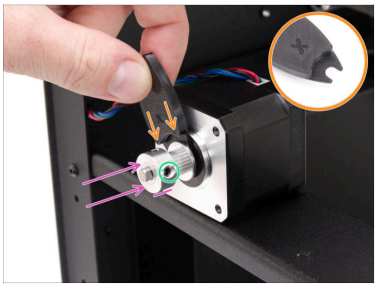


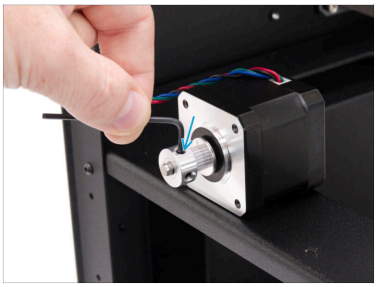
Before routing the belts, familiarize yourself with their path through the CoreXY mechanism.

- The following diagrams show the routing of the upper and lower belts and their orientation within the assembly.
  - Percorso della cinghia superiore
  - Percorso della cinghia inferiore
- **Do not perform any actions in this step.**

PASSO 22 Installazione della nuova puleggia (motore sinistro)

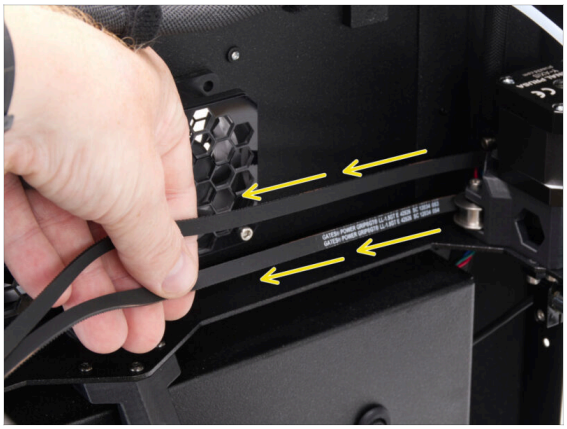


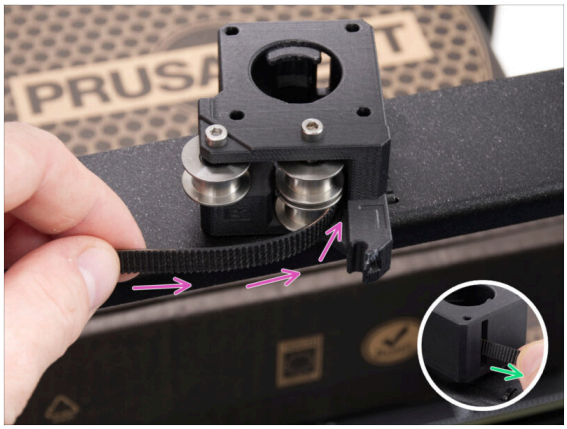




- Rotate the motor shaft so that the flat faces you. **Do not rotate the shaft any further.**
- Fai scivolare la nuova puleggia T21-1.5GT sull'albero, con il lato della vite di fissaggio rivolto **in direzione opposta al motore**.
- Insert the Pulley-offset-tool, with the side marked "X", between the motor and the pulley to set the correct distance.
- Press the pulley against the Pulley-offset-tool and tighten the set screw **against the flat on the motor shaft**.
- Rotate the pulley and tighten the second set screw.

PASSO 23 Orientamento della cinghia inferiore (motore sinistro)

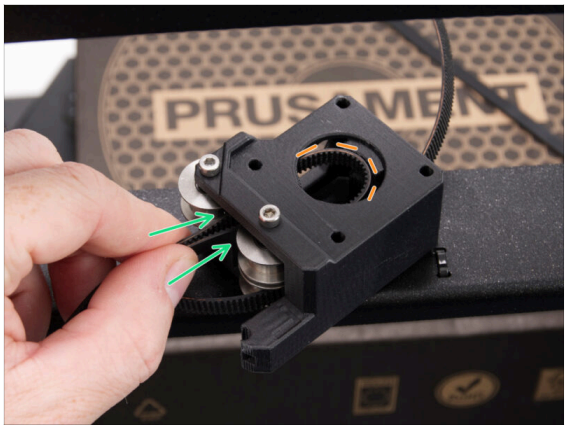




- Route both belts from the right motor towards the rear side of the printer and guide them to the left motor.
- Place the motor-mount onto the printer frame with the side containing one pulley facing downward.
- Route the **lower belt** around the lower idler from the right side.

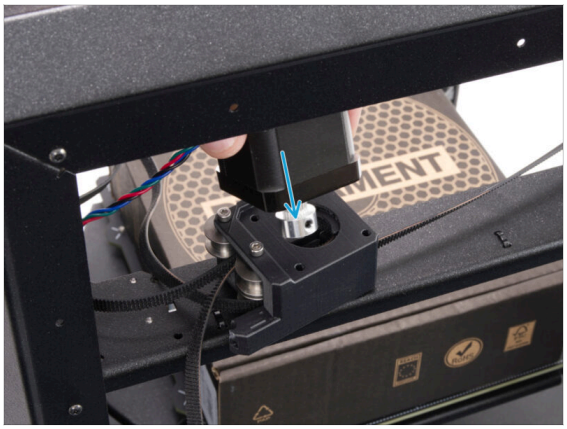
  ⚠ **Assicurati di tenere la cinghia inferiore** che proviene dal motore di destra. **La cinghia non deve essere attorcigliata lungo il suo percorso.**
- From the opposite side, pull the belt out approximately 15 cm (6 in).

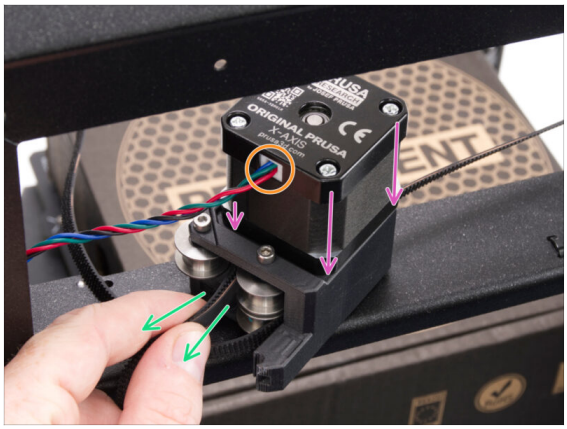
PASSO 24 Inserimento della cinghia superiore (motore sinistro)



- Take the **upper belt** and form a loop with the **teeth facing inward**.
- Push the belt loop into the motor mount **between the two upper pulleys**.
- Viewed from the top, the belt loop should follow the circular cutout in the motor mount as closely as possible.

PASSO 25 Fissaggio della cinghia superiore (motore sinistro)

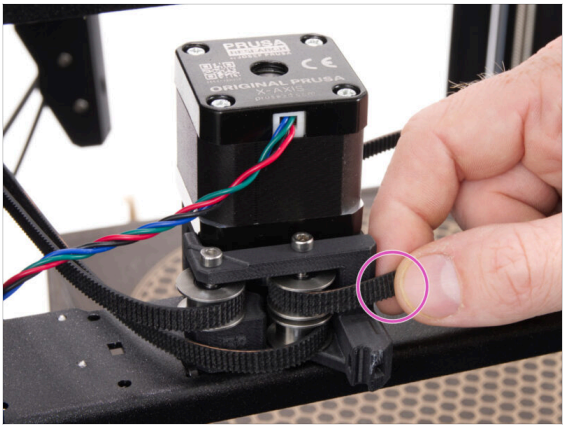


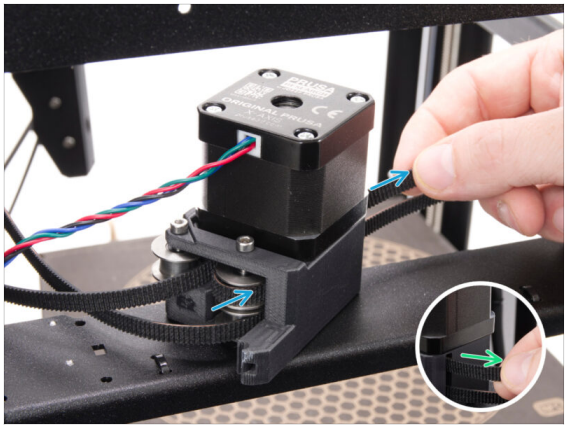


Throughout the process, make sure the **belt does not slip out of the assembly**.

- Insert the motor with the pulley into the belt loop inside the motor mount.
- Fully seat the motor against the motor mount.
  - Orient it so that the motor cable faces backward (towards the pulleys).
- Gently pull both ends of the belts to secure the belt loop around the pulley.

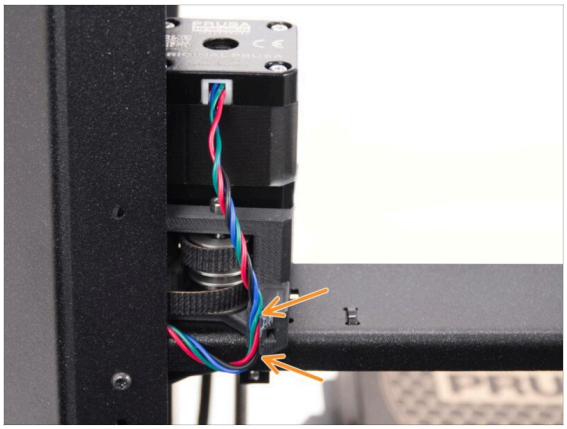
PASSO 26 Orientamento della cinghia superiore (motore sinistro)

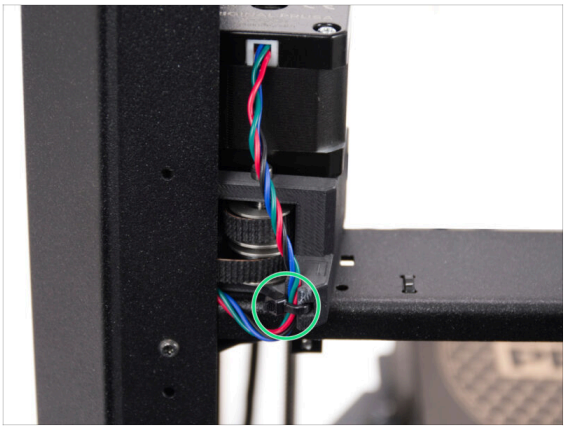




- Grasp the right belt coming from the upper pulley.
- Route the belt around the upper right pulley **from the right side** and insert it into the motor mount.
- Sul lato opposto, controlla che la cinghia esca dall'apertura e tirala fuori finché non sporge di circa 15 cm (6 pollici).

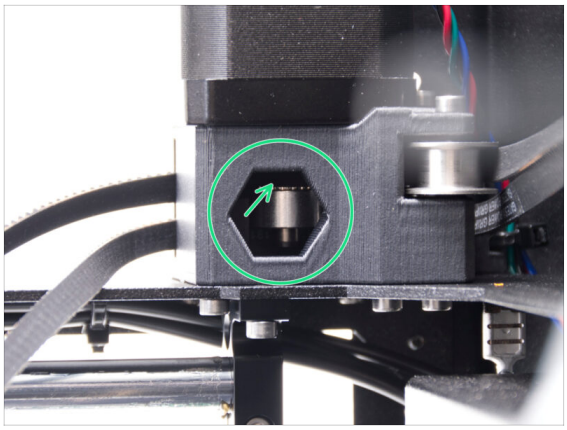
PASSO 27 Fissaggio del cavo del motore (motore sinistro)





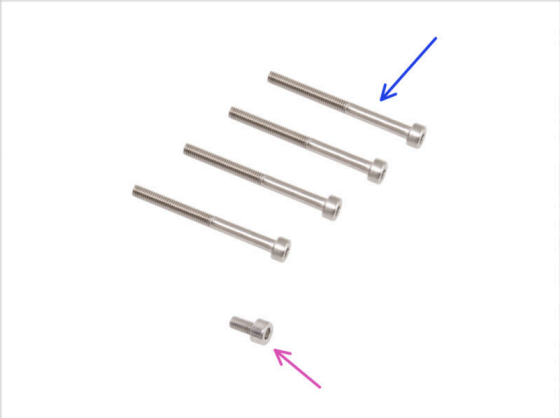
- Move the assembly closer to the rear corner of the printer.
- Route the motor cable through the cable channel, as shown in the picture.
- Push the zip tie through the hole in the printed part. And carefully secure the cable with the zip tie.

PASSO 28 Fissare il motore sinistro



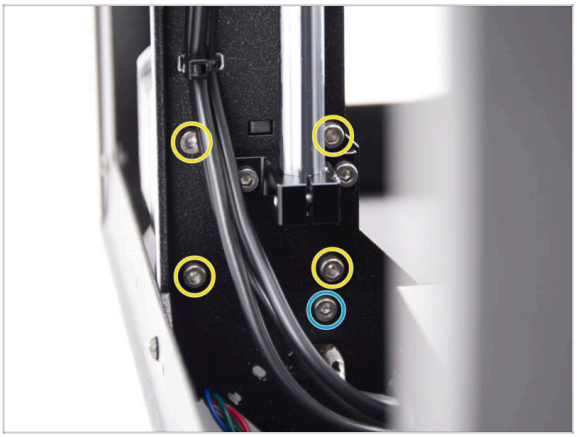
- Rotate the motor assembly with the motor mount into the correct position. The **belt idlers must face the rear side** of the printer.
  - The motor mount has a tab on the bottom side that must fit into the rectangular cutout in the frame.
- From the inner side of the printer, check that the upper belt is seated on the idler throught the hexa hole in the motor-mount.

PASSO 29 Pulegge del tendicinghia: preparazione dei componenti



- **Per i seguenti passi prepara:**
- Vite M3x35 (4x) *rimossa in precedenza*
- Vite M3x6 (1x) *rimossa in precedenza*
- Belt tensioner assembly (2x) *you removed earlier*

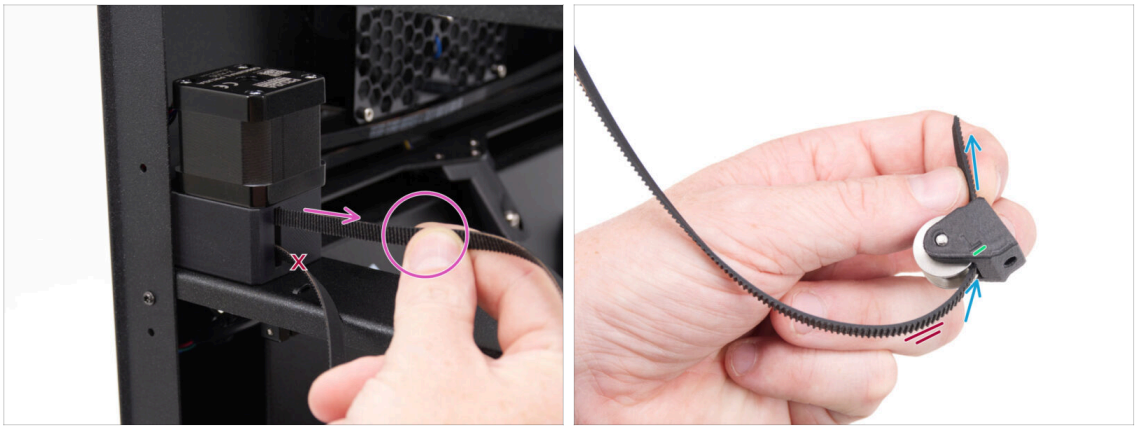
PASSO 30 Stringere il motore sinistro



- Fissa l'intero gruppo motore dal lato inferiore del telaio usando quattro viti M3x35.
- Finally, secure the motor mount with an M3x6 screw.

⚠ **Do not overtighten the M3x6 screw.** The screw is secured directly into a plastic part and excessive tightening can damage the thread.

PASSO 31 Orientamento della cinghia superiore (lato sinistro)



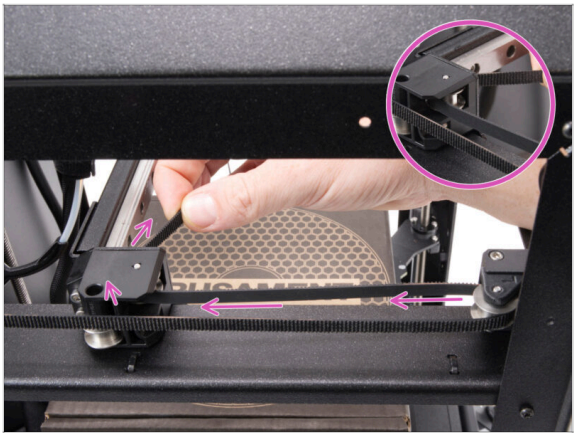
- Take the **upper** belt coming from the left motor.
- **Route the belt around the idler so that:**
  - The "L" (left) mark on the idler faces upward
  - The toothed side of the belt does not contact the idler

⚠ The belt must not be twisted along its path.

PASSO 32 Fissare il tendicinghia sinistro

- Insert the idler with the belt wrapped around it into the "rails" of the left tensioner.
- Dal lato opposto, stringi la vite già inserita finché il gruppo del tenditore non inizia a muoversi.
- Stop tightening when the sliding part is flush with the stationary part.

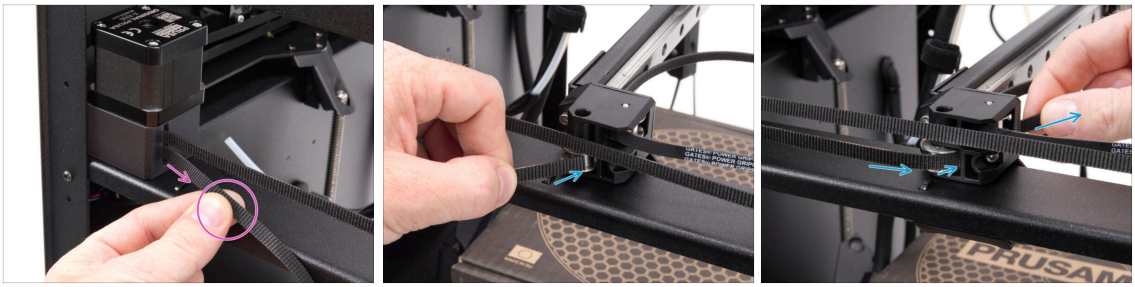
PASSO 33 Guiding the upper belt (gantry - left)



- Fai passare l'estremità libera della cinghia proveniente dalla puleggia intorno alla puleggia superiore del gantry XY.

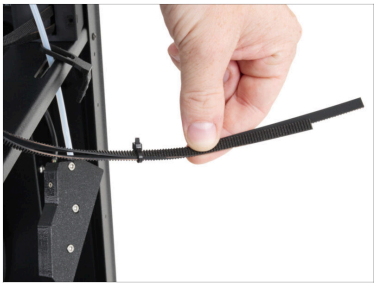
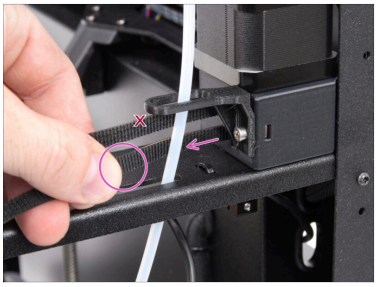
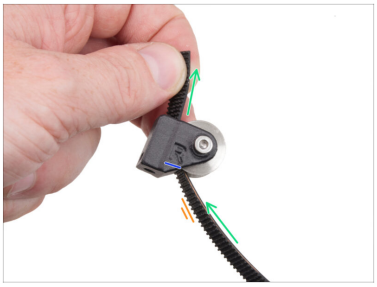
ⓘ The XY gantry idlers may differ visually between printer versions. The procedure is identical for both 3D-printed and injection-molded parts.

PASSO 34 Guiding the lower belt (gantry - left)



- Take the lower belt coming from the left motor.
- Route it towards the XY gantry and around the lower idler.
  - From the opposite side, pull the belt through until at least 8 cm (3 in) is sticking out.

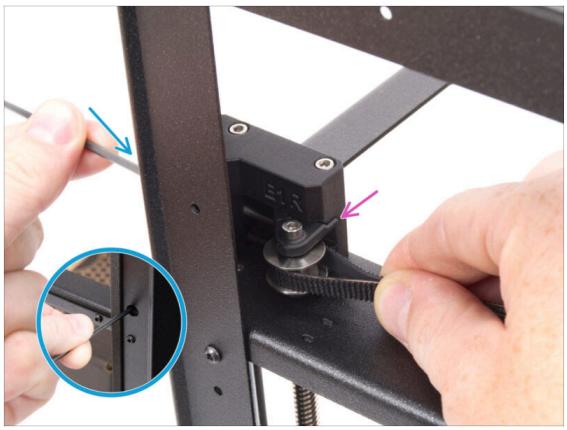
PASSO 35 Orientamento della cinghia inferiore

- Spostati verso il motore di destra.
- Remove the zip tie securing the two free belt ends on the right side of the printer, if you used one.
- Take the **lower** belt coming from the right motor.
- **Route the belt around the idler so that:**
  - The "R" (right) mark on the idler faces upward
  - The toothed side of the belt does not contact the idler

⚠ The belt must not be twisted along its path.

PASSO 36 Fissare il tendicinghia destro



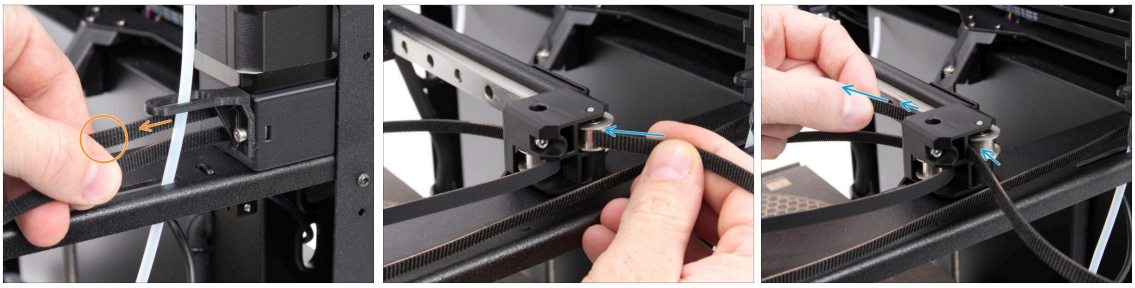
- Insert the idler with the belt wrapped around it into the "rails" of the right tensioner.
- Dal lato opposto, stringi la vite già inserita finché il gruppo del tenditore non inizia a muoversi.
- Stop tightening when the sliding part is flush with the stationary part.

PASSO 37 Guiding the lower belt (gantry - right)

- Fai passare l'estremità libera della cinghia proveniente dalla puleggia intorno alla puleggia inferiore del gantry XY.
  - From the opposite side, pull the belt through until at least 8 cm (3 in) is sticking out.

ⓘ The XY gantry idlers may differ visually between printer versions. The procedure is identical for both 3D-printed and injection-molded parts.

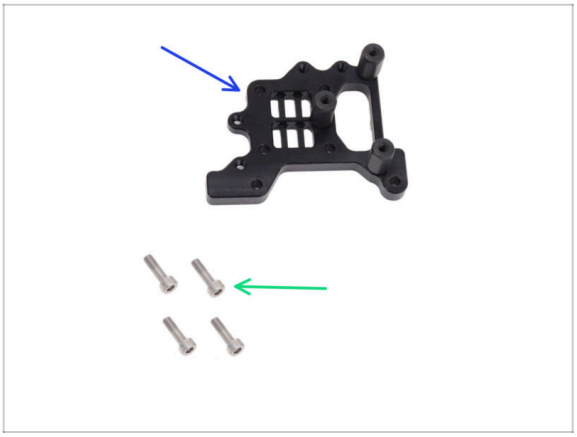
PASSO 38 Guidare la cinghia superiore (gantry - destra)



- Take the upper belt coming from the right motor.
- Route the belt around the upper idler on the XY gantry.
  - From the opposite side, pull the belt through until at least 8 cm (3 in) is sticking out.

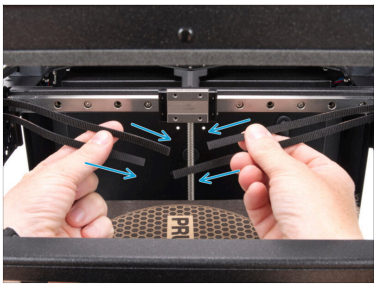
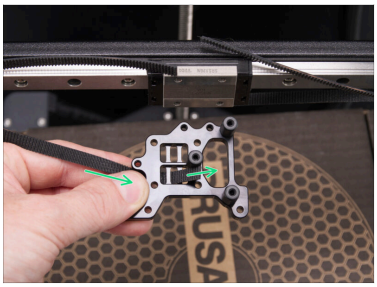
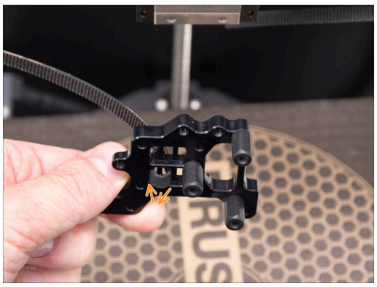
Se stai assemblando la Prusa INDX insieme all'aggiornamento GEN 2, **torna all'articolo su Prusa INDX GEN 2 adesso**.

PASSO 39 Supporto Nextruder: preparazione dei componenti



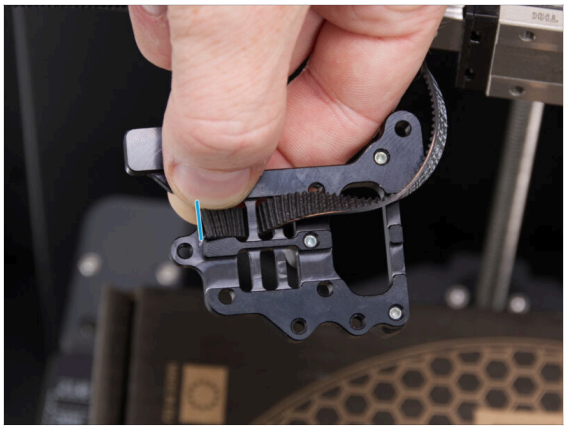
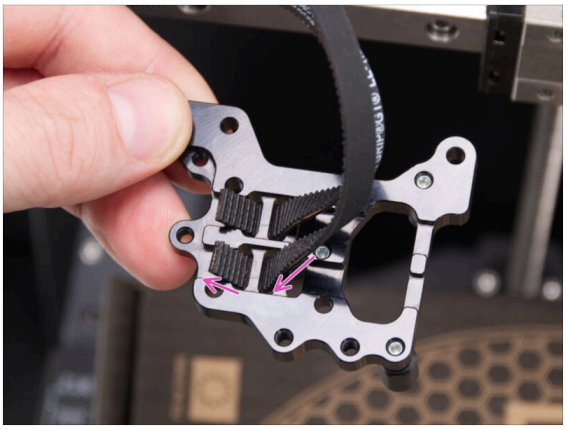
- **For the follwing steps, pelase prepare:**
- Nextruder holder assembly (1x) *you removed earlier*
- Vite M3x10 (4x) *rimossa in precedenza*

PASSO 40 Fissare le cinghie I.

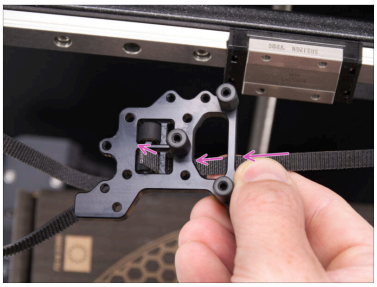
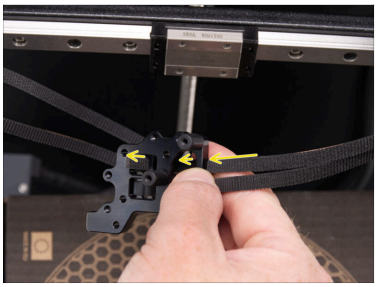
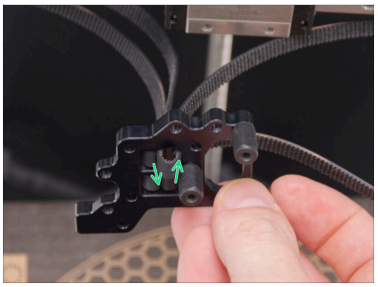
- Gently pull all belt ends towards the center of the printer.
- Keep the Nextruder holder in the same orientation as shown in the picture.
- Route the **lower left** belt through the center opening of the Nextruder holder from the rear side to the front.
  - Pull the belt out so that approximately 15 mm protrudes.
- From the front side of the Nextruder holder, route the belt back through the left opening towards the rear.

PASSO 41 Fissare le cinghie II.

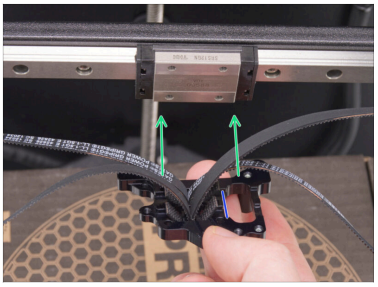
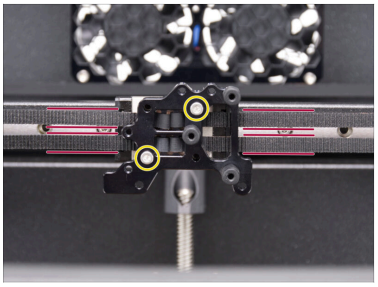
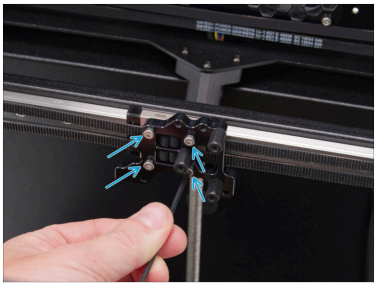
- From the rear side, place the belt end against the Nextruder holder.
  - Adjust the belt length so that the belt end is **flush with the edge** of the Nextruder holder.
- Repeat the same procedure for the **upper left** belt.

PASSO 42 Fissare le cinghie III.

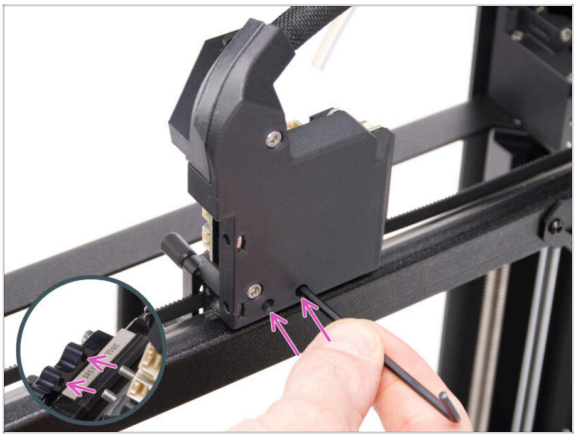
- From the rear side, route the **lower belt coming from the right** side through the center opening of the Nextruder holder.
  - Pull out approximately 15 mm of the belt.
- Route the upper right belt through the rear side of the Nextruder holder.
- Bend both right-side belts and route them back through the right opening of the Nextruder holder.

PASSO 43 Montaggio del supporto Nextruder

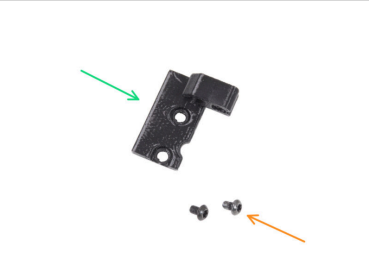
- Align the right-side belts with the edge of the Nextruder holder and adjust their length if needed.
- Align the Nextruder holder with the X-carriage. The Nextruder holder is attached from the belt side.
- Attach the Nextruder holder to the X-carriage and lightly secure it using one upper and one lower M3x10 screw.
- Check that all belts run straight and are not twisted.
- Insert the remaining two M3x10 screws and tighten all four screws firmly.

PASSO 44 Montaggio del gruppo LoveBoard



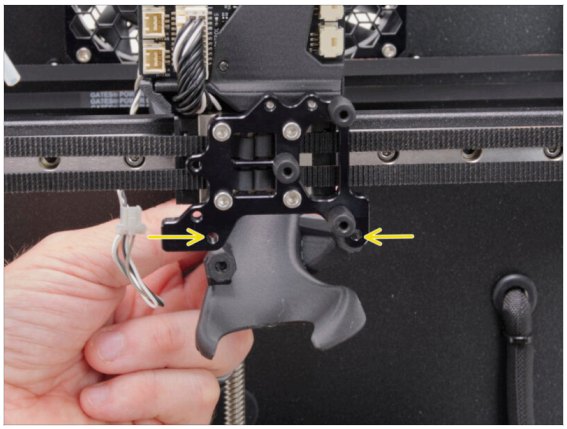
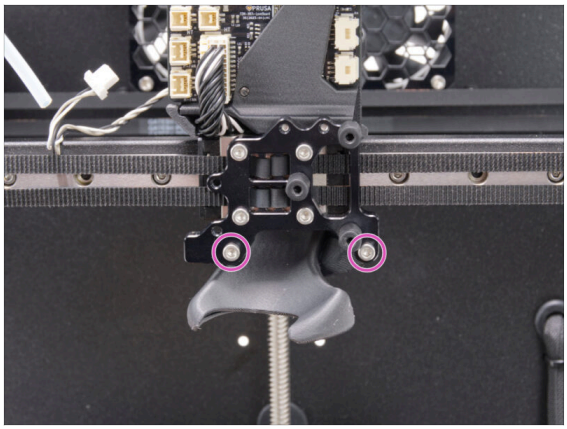
- Look at the rear side of the Nextruder holder.
- Attach the LoveBoard assembly to the rear side of the Nextruder holder while it is resting on the box.
  - The LoveBoard assembly has two pre-inserted screws. Align them with the holes in the Nextruder holder and tighten them using a 2.5 mm Allen key.

PASSO 45 Gruppo convogliatore ventola: preparazione dei componenti



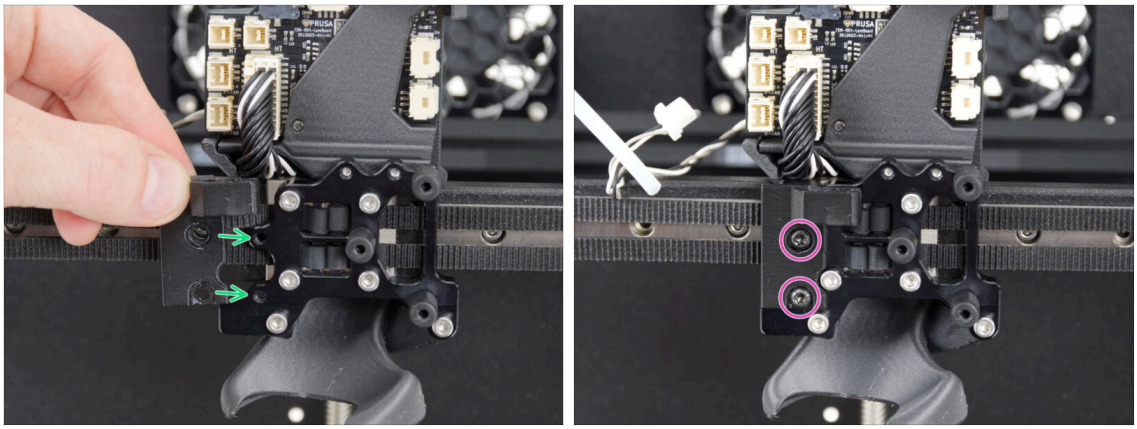
- **Per i seguenti passi prepara:**
- Fan shroud assembly (1x) *you removed earlier*
- Vite M3x10 (2x) *rimossa in precedenza*
- Cable-clip (1x) *you removed earlier*
- M3x4rT screw (2x) *you removed earlier*

PASSO 46 Montaggio del gruppo convogliatore ventola

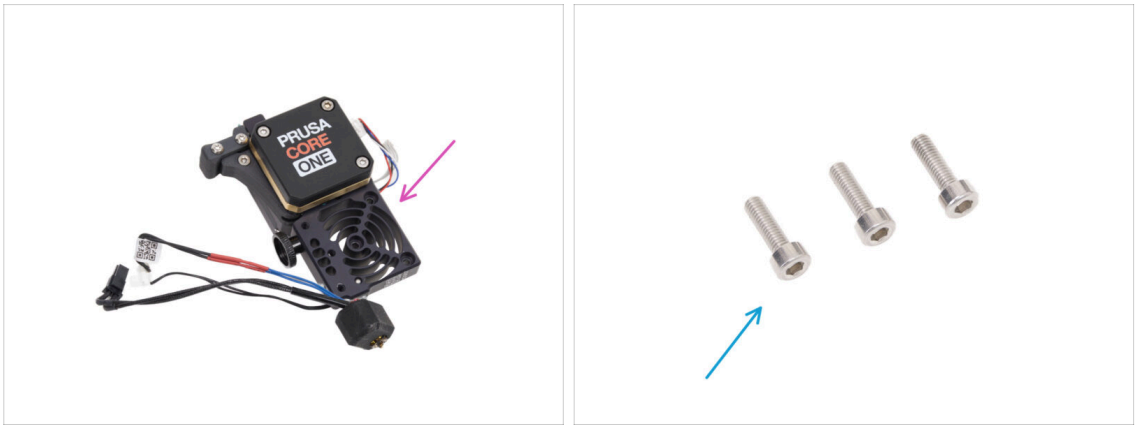
- From the rear side of the Nextruder holder, place the fan shroud assembly and align it with the holes.
- Secure the assembly using two M3x10 screws.

PASSO 47 Installare la clip del cavo



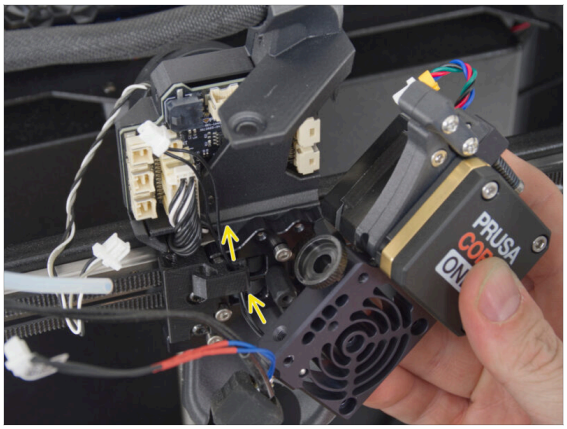
- From the front side of the Nextruder holder, place the Cable-clip in the orientation shown in the picture and align it with the holes.
- Secure the Cable-clip using two M3x4rT screws and tighten them using a T10 key.

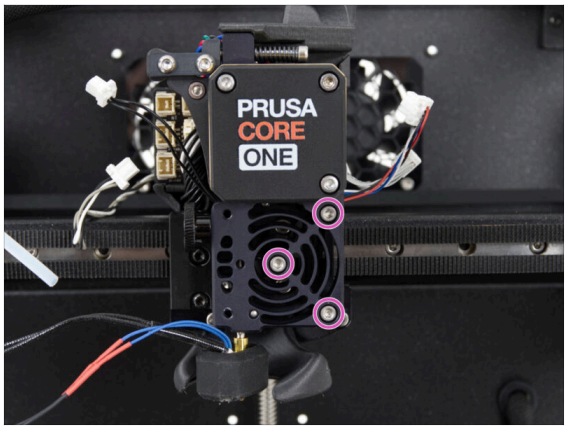
PASSO 48 Gruppo Nextruder: preparazione componenti



- **Per i seguenti passi prepara:**
- Nextruder assembly (1x) *you removed earlier*
- M3x10 screw (3x) *you removed earlier*

PASSO 49 Collegare il gruppo Nextruder

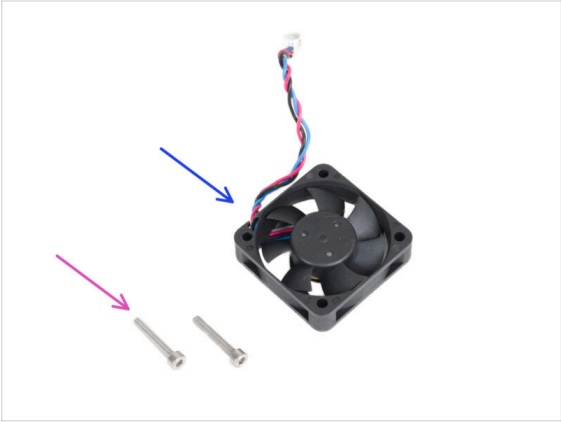




- Take the Nextruder assembly and position it against the Nextruder holder.
- Hook the NTC thermistor cable coming from the rear side of the heatsink into the right side of the Cable-clip.
- Place the Nextruder onto the Nextruder holder spacers, align it, and secure it using three M3x10 screws.

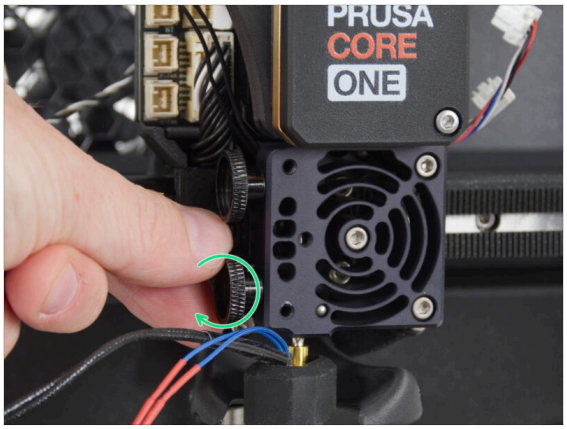
  ⚠ **Do not overtighten the screws.** The spacers are made of plastic and can be damaged by excessive tightening.

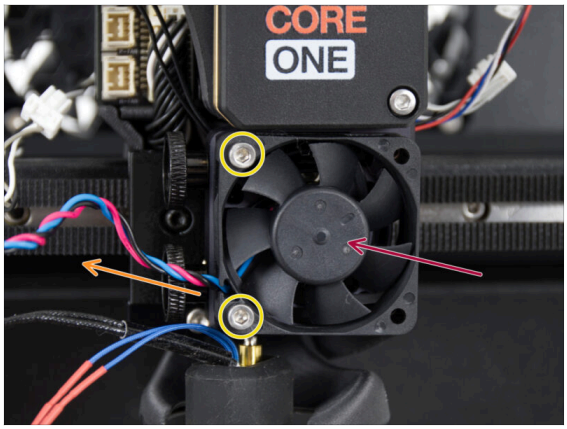
PASSO 50 Ventola del dissipatore: preparazione dei componenti



- **For the following steps, pelase prepare:**
- Heatsink fan (1x) *you removed earlier*
- M3x20 screw (2x) *you removed earlier*
- Thumbs screw (1x) *you removed earlier*

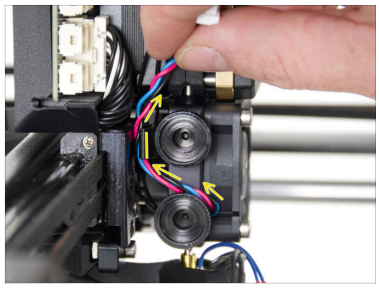
PASSO 51 Montaggio della ventola del dissipatore

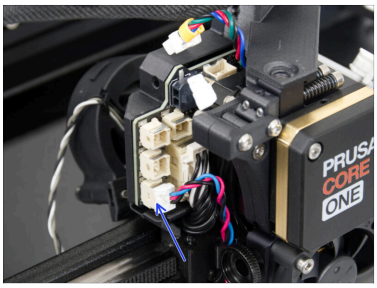


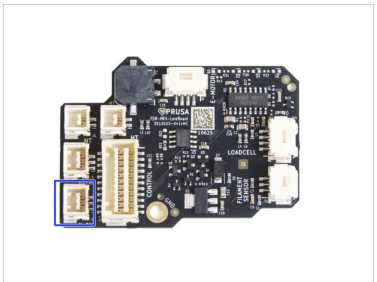


- Screw the thumb screw back into the side of the Nextruder heatsink and tighten it firmly by hand.
- Attach the Nextruder heatsink fan using two M3x20 screws.
  - The fan must face outward with the side **without the sticker facing out**.
  - The heatsink cable must exit from the **lower-left corner**.

PASSO 52 Collegamento della ventola del dissipatore

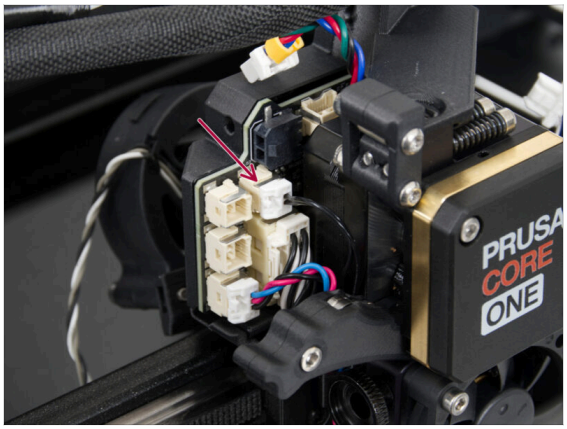


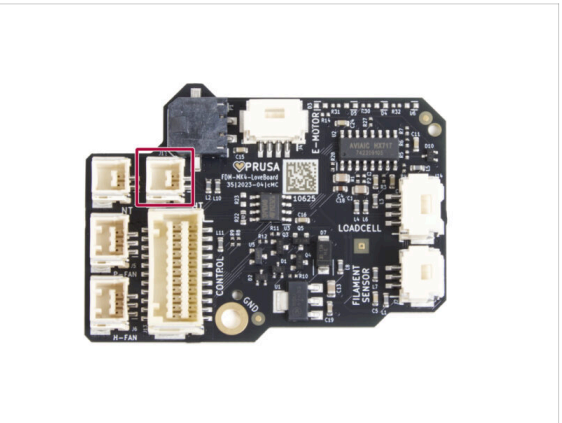




- Route the heatsink fan cable above the lower thumb screw through the Cable-clip.
- Connect it to the lowest connector on the LoveBoard.

PASSO 53 Connettere il termistore del dissipatore

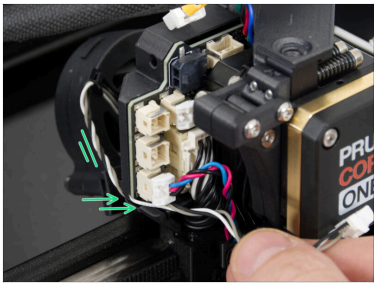


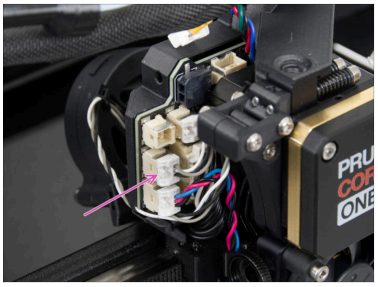


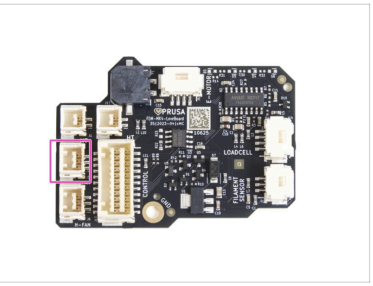
- Connect the heatsink thermistor to the upper right connector.

ⓘ For better access, you can release the tensioning mechanism of the idler.

PASSO 54 Connettere la ventola di stampa

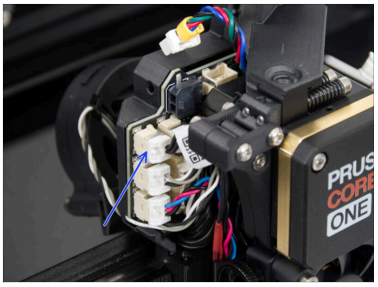


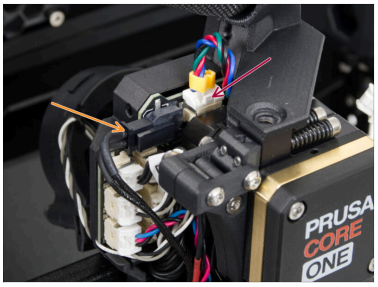


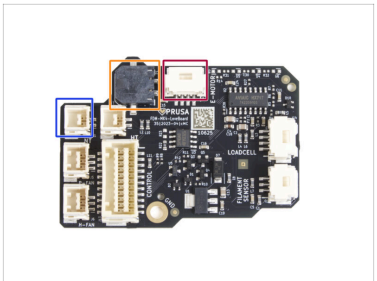


- Guide the print fan cable through the cable channel.
  - The cable should **not be stretched too tightly**.
- Plug the print fan cable to the middle conenctor in the left row on the LoveBoard.

PASSO 55 Connecting the hotend cables and motor

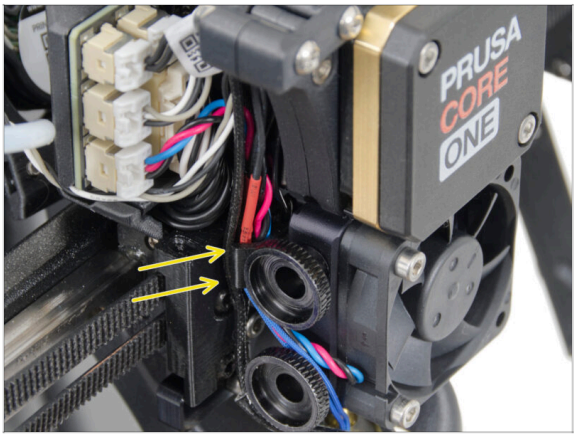






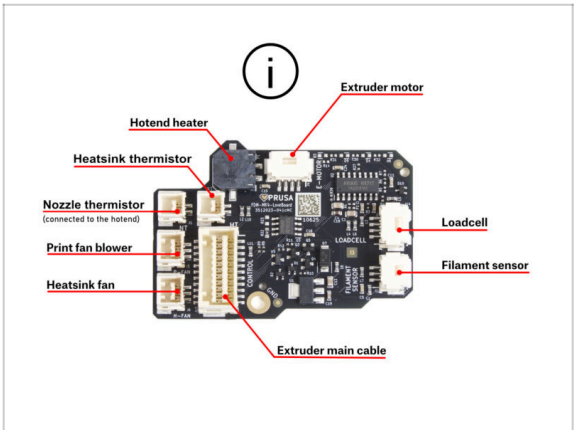
- Collega il cavo del termistore dell'ugello al connettore in alto nella fila di sinistra.
- Connect the hotend heater cable to the black connector at the top.
- Connect the extruder motor cable (E) to the topmost connector.

PASSO 56 Guidare i cavi dell'hotend



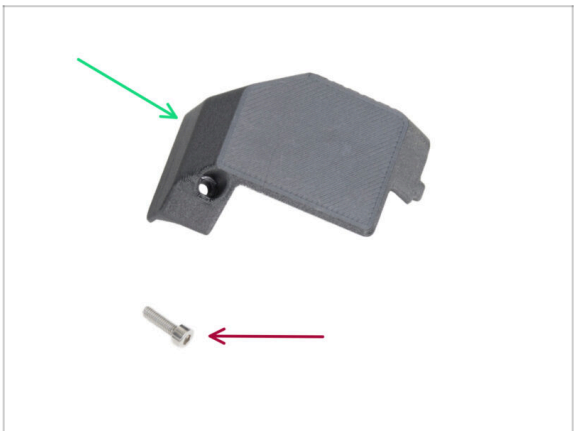
- Hook both hotend cables into the Cable-clip.
  - Hook the thermistor cable first, followed by the heater cable.

PASSO 57 Controllo del cablaggio



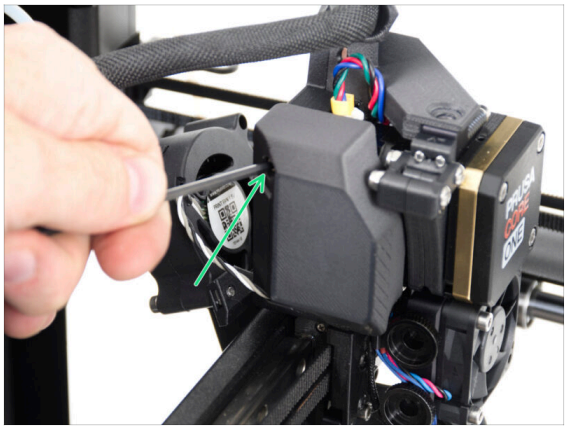
Before closing the Nextruder electronics, perform a final inspection according to the wiring diagram.

PASSO 58 Print-head-cover-left: preparazione dei componenti



- **Per i seguenti passi prepara:**
- Printhead-cover-left (1x) *you removed earlier*
- M3x10 screw (1x) *you removed earlier*

PASSO 59 Coprire l'elettronica - lato sinistro

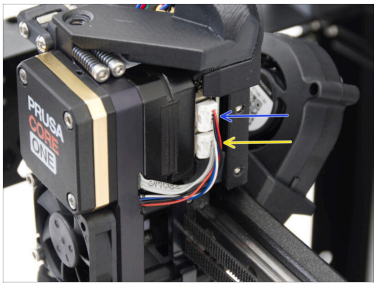


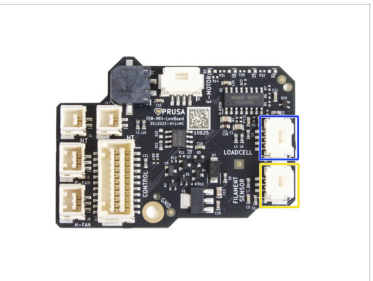
- Place the Printhead-cover-left onto the left side of the Nextruder.
  - Insert the tab into the opening first.
  - Poi fissa la parte superiore della copertura con una vite M3x10.

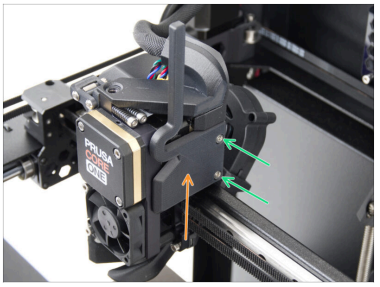
PASSO 60 Print-head-cover-right: preparazione dei componenti

- **Per i seguenti passi prepara:**
- Printhead-cover-right-lever (1x) *you removed earlier*
- M3x6 screw (2x) *you removed earlier*
- Fitting M4-5 (1x) *you removed earlier*

PASSO 61 Collegamento della cella di carico e dell'FS





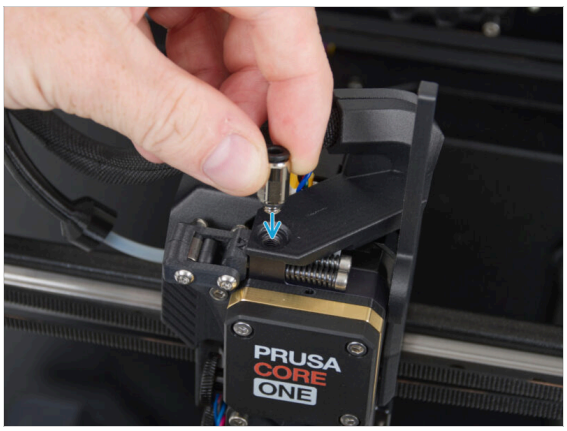


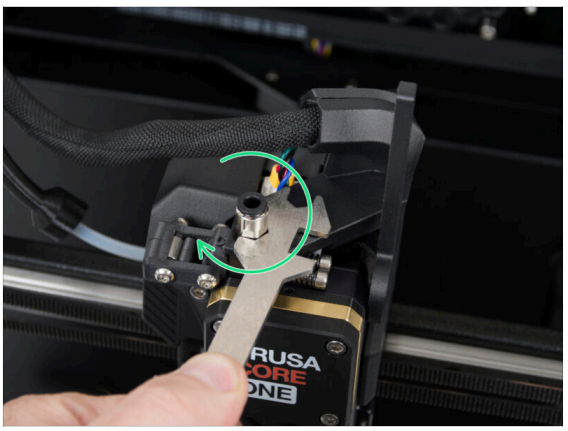
- Plug the Loadcell cable to the upper connector on the right side of the Nextruder.
- Plug the filaments sensor cable to the lower connector,

  ⓘ The connectors are keyed and cannot be mixed up.
- Posiziona la copertura con leva Printhead-cover-right-lever sul lato destro del Nextruder.

  ⚠ Non schiacciare i cavi!
- Secure the cover with two M3x6 screw.

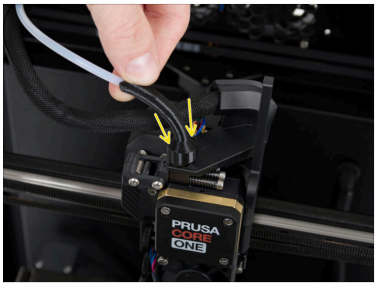
PASSO 62 Installare il raccordo

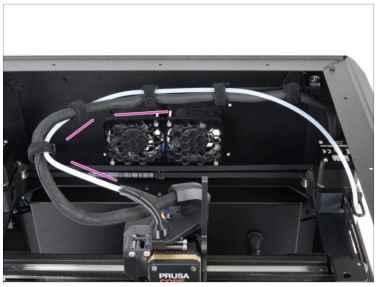




- Insert the fitting M4-5 to the heatsink.
- Using the universal wrench, thighten the fitting firmly.

PASSO 63 Collegare il tubo in PTFE





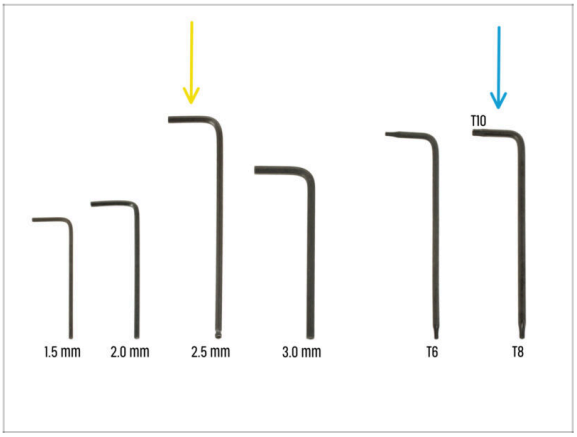
- Push the free end of the removed PTFE tube into the fitting. Push it all the way down.
- Slide the Bowden-bend down to cover the fitting.
- After connecting the cables, verify the routing against the reference image. Make sure the PTFE tube is **not twisted** and it's routed correctly.

PASSO 64 Ci siamo quasi...

- **Congratulations!** You have successfully replaced the belts.
- Continue to the **next chapter.**

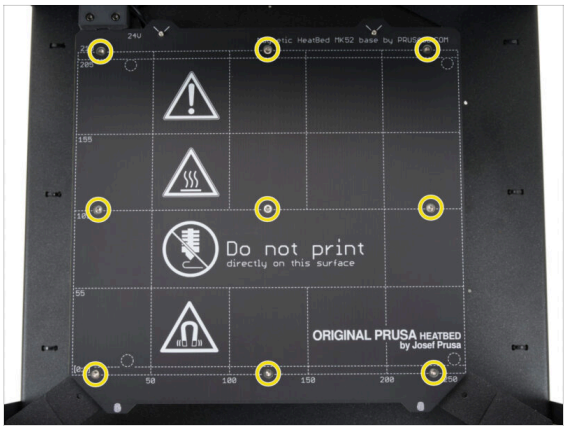
4. Aggiornamento piano riscaldato

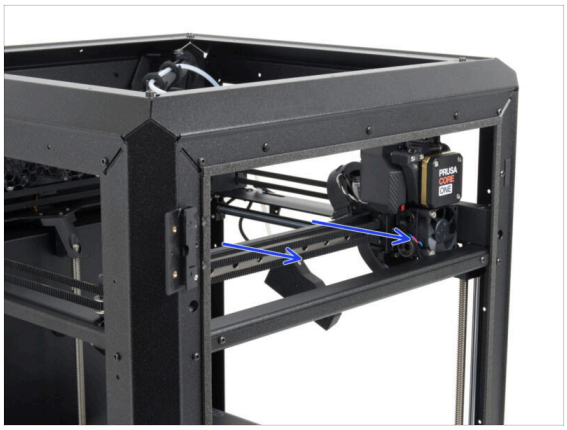
PASSO 1 Strumenti



- **Attrezzi necessari per questo capitolo:**
- Chiave a brugola da 2.5mm
- Chiave / Cacciavite T10

PASSO 2 Liberare il piano riscaldato

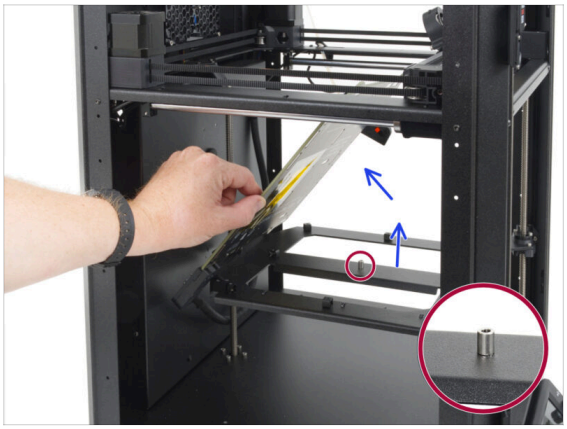




- Con un cacciavite T10, allenta e rimuovi tutte e nove le viti a testa svasata che fissano il piano riscaldato.

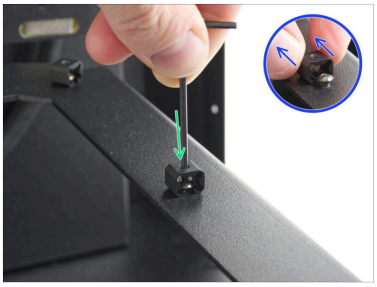
  ⓘ Keep these screws at hand; we will use them to secure the headbed later.
- Sposta il Nextruder completamente in avanti.

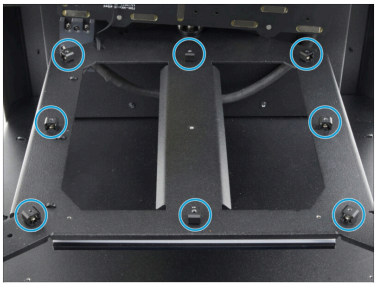
PASSO 3 Aprire il piano riscaldato



- Allontana il piano riscaldato dal carrello Z.
- Togli il distanziale sotto il piano riscaldato e buttalo via per evitare di confonderlo con quello nuovo.
- Appoggia il piano riscaldato contro la parte posteriore della stampante.
- Sposta il Nextruder verso il piano riscaldato e bloccalo con la ventola di stampa per evitare che si inclini verso il basso.

PASSO 4 Rimozione dei vecchi giunti di espansione

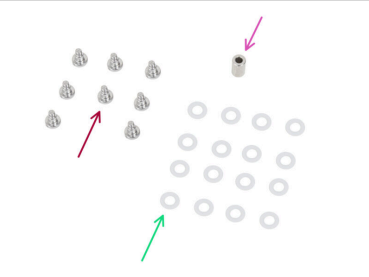




- Con una chiave a brugola da 2,0 mm, allenta leggermente la vite M3x4r che fissa il giunto di espansione sul carrello Z.
- Fai scivolare il giunto di espansione fuori dalla vite.

  ⓘ Keep the expansion joints. One of them will be reused for the nozzle wiper assembly.
- Rimuovi la vite M3x4r.
- Procedi allo stesso modo per gli altri giunti di espansione.

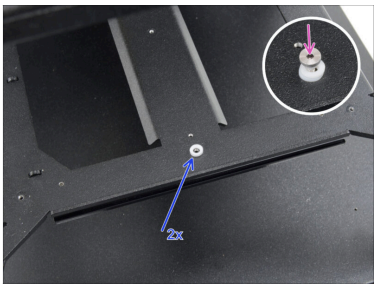
PASSO 5 Nuovi giunti di espansione: preparazione dei componenti

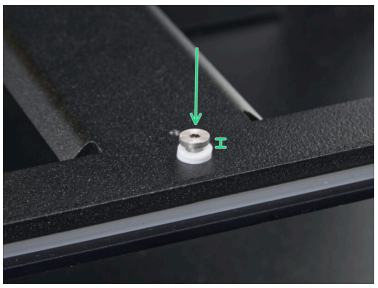
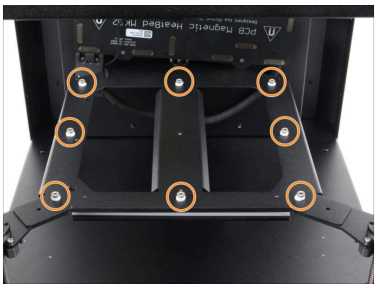


- **Per i seguenti passi prepara:**
- Nuovo giunto di espansione (8x)
- Vite dei giunti di espansione (8x)
- Rondella in PTFE M3 (16x)
- Distanziale piano riscaldato da 10 mm (1x)

Non confondere il nuovo distanziatore per il piano riscaldato con quello vecchio. Sembrano simili, ma il **nuovo distanziatore è più lungo**.

PASSO 6 Installazione delle viti per i giunti di espansione

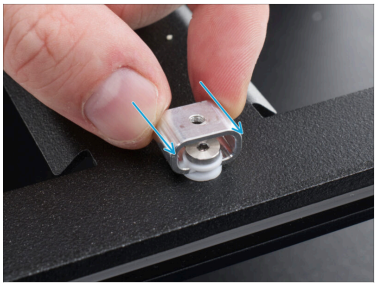
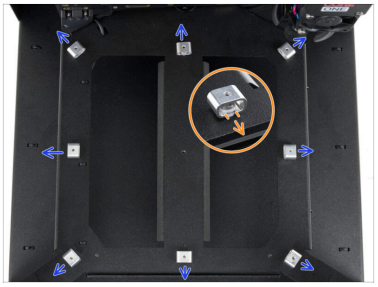


- Metti le **due** rondelle in PTFE una sopra l'altra nel foro filettato anteriore del carrello Z.
- Inserisci la vite del giunto di espansione attraverso le rondelle nel foro filettato.
- Stringi bene la vite, ma senza esagerare.

  È normale che ci sia un piccolo spazio tra le rondelle e la testa della vite, a causa della parte non filettata della vite.
- Procedi allo stesso modo per il resto dei fori filettati.

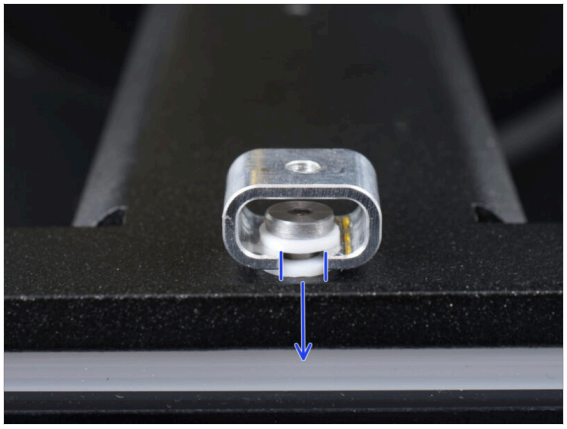
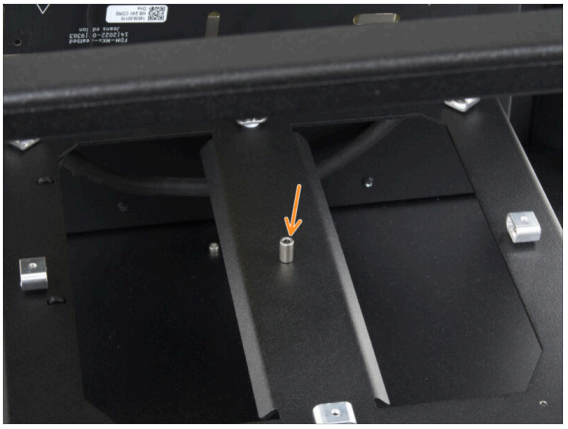
PASSO 7 Installazione dei nuovi giunti di espansione

- Fai scivolare il nuovo giunto di espansione, con la scanalatura rivolta verso il basso, sulla vite **tra** le rondelle in PTFE.
- Posiziona il giunto di espansione in modo che la **scanalatura sia rivolta nella direzione opposta al carrello Z**.
- Repeat this process for all remaining expansion joints.

ⓘ La posizione finale verrà regolata seguendo questi passaggi.

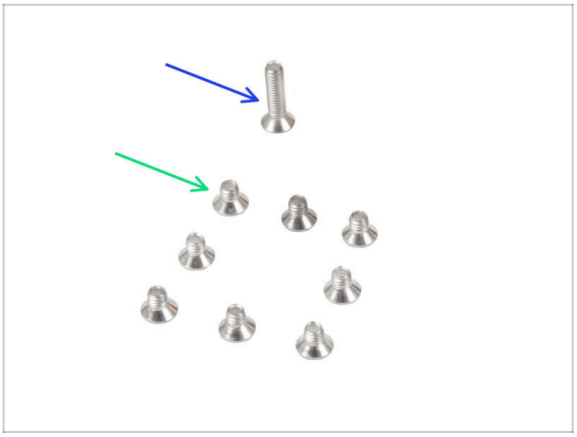
PASSO 8 Come inserire il distanziatore del piano riscaldato

- Double-check that all expansion joints are oriented correctly and that the grooves are facing outward.
- Posiziona il **nuovo** distanziatore da 10 mm per il piano riscaldato nel foro filettato al centro del carrello Z.

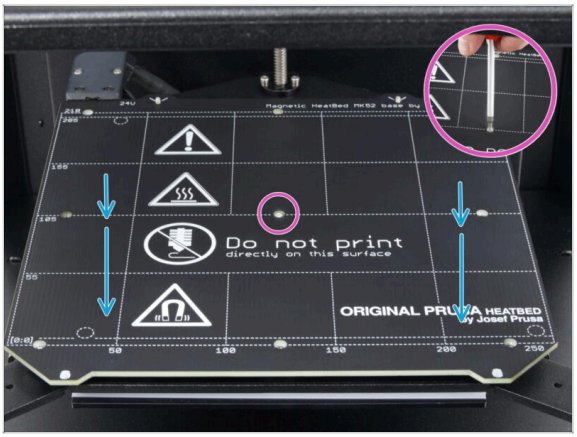
Se stai assemblando Prusa INDX insieme all'aggiornamento GEN 2, torna all'articolo: **Assemblaggio della Prusa INDX Core One con l'aggiornamento Gen 2**.

PASSO 9 Viti del Piano riscaldato: preparazione componenti



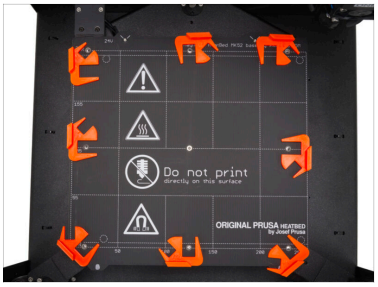
- **Per i seguenti passi prepara:**
- Vite a testa svasata M3x14cT (1x)
  - ⓘ Some iterations of the upgrade might call this screw M3x14bT.
- Vite a testa svasata M3x4cT (8x) *rimossa in precedenza*

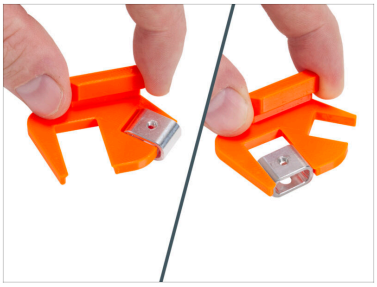
PASSO 10 Fissare il piano riscaldato



- Posiziona il piano riscaldato sui giunti di espansione e allinea i fori di montaggio.
- Inserisci la vite a testa svasata M3x14cT attraverso il distanziatore del piano riscaldato nel foro centrale e serralala leggermente.

PASSO 11 Allineatore per giunti di espansione





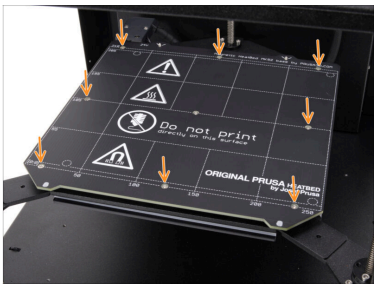
- Prepara l'allineatore **Expansion-joint-aligner** per i passaggi seguenti.

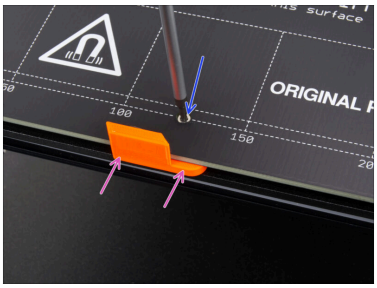
ⓘ Il tuo pacchetto include la **versione nera**. In questa guida è mostrata la versione arancione per una maggiore visibilità.

- Nei passaggi seguenti, allineerai con precisione ciascun giunto di espansione.
- Per maggiore chiarezza, dai un'occhiata alla seconda immagine che mostra l'orientamento semplificato dell'allineatore per un singolo giunto di espansione.
- La terza immagine mostra lo strumento di allineamento che viene fatto scorrere sul giunto di espansione come riferimento.

  ⓘ Il giunto di espansione è raffigurato all'esterno della stampante per maggiore chiarezza. Durante l'allineamento, va installato sotto il piano riscaldato.

PASSO 12 Allineamento del giunto di espansione anteriore



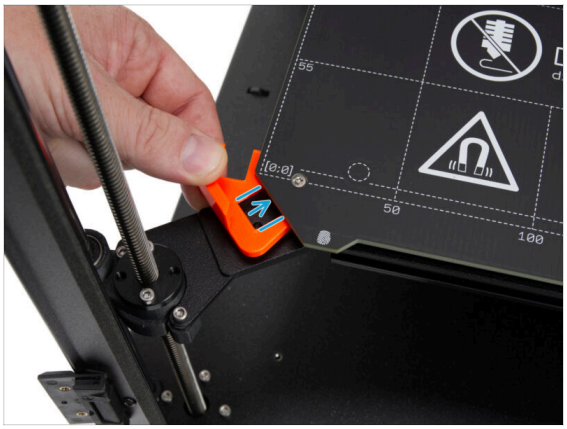


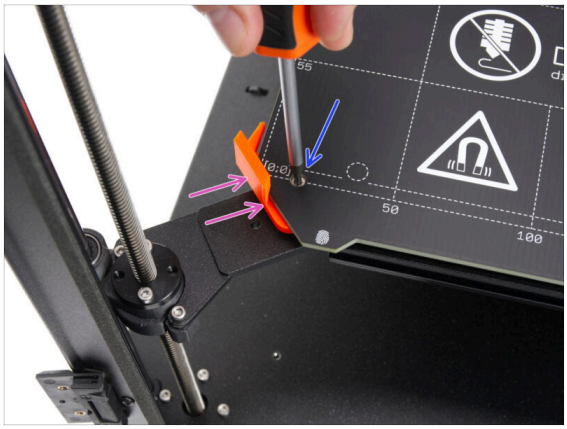
- Inserisci le viti M3x4cT in **tutti e otto i fori** attorno al piano riscaldato. Stringi ogni vite di **un solo giro**.
- Inizia allineando il **giunto di espansione centrale sul lato anteriore**.

  ⓘ Usa i simboli presenti sul piano riscaldato come riferimento.

- Fai scorrere la chiave a forcella sul giunto di espansione e spingi l'allineatore Expansion-joint-aligner contro il piano riscaldato. In questo modo il giunto di espansione verrà allineato.
- Spingi con decisione l'allineatore contro il bordo del piano riscaldato.
- Stringi la vite, ma solo un po'.

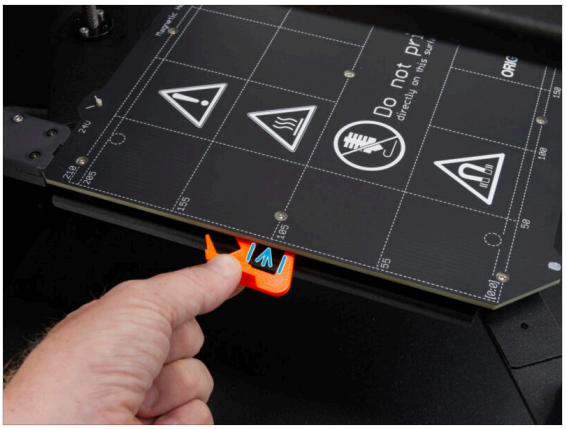
PASSO 13 Allineamento del giunto di espansione anteriore sinistro

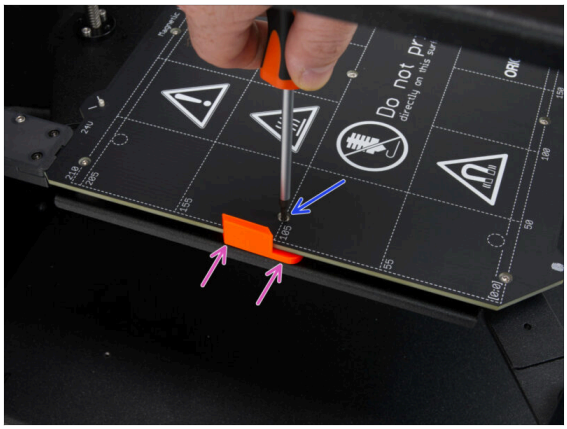




- Spostati verso l'**angolo sinistro**.
- Fai scorrere la chiave a forcella sul giunto di espansione e spingi l'allineatore Expansion-joint-aligner contro il piano riscaldato. In questo modo il giunto di espansione verrà allineato.
- Spingi con decisione l'allineatore contro il bordo del piano riscaldato.
- Stringi la vite, ma solo un po'.

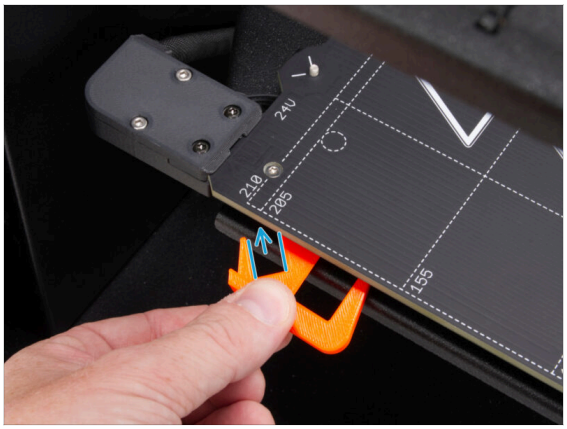
PASSO 14 Allineamento del giunto di espansione sul lato sinistro

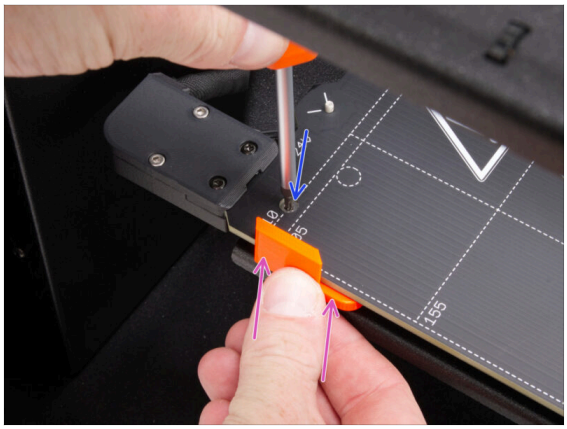




- Spostati sul **lato sinistro** del piano riscaldato.
- Fai scorrere la chiave a forcella sul giunto di espansione e spingi l'allineatore Expansion-joint-aligner contro il piano riscaldato. In questo modo il giunto di espansione verrà allineato.
- Spingi con decisione l'allineatore contro il bordo del piano riscaldato.
- Stringi la vite, ma solo un po'.

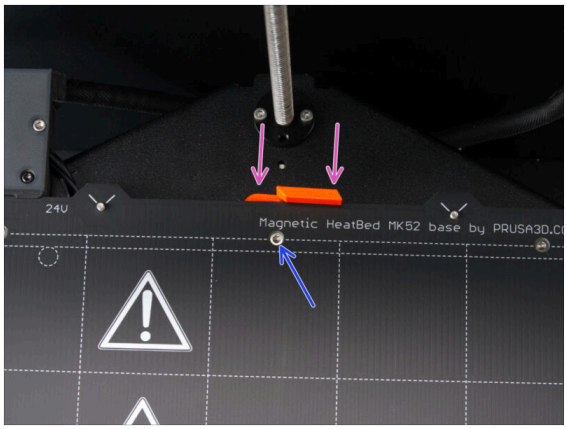
PASSO 15 Allineamento del giunto di espansione posteriore sinistro





- Spostati verso l'**angolo posteriore sinistro**.
- Fai scorrere la **parte angolata** della chiave a forcella sul giunto di espansione e spingi l'allineatore Expansion-joint-aligner contro il piano riscaldato. In questo modo il giunto di espansione verrà allineato.
- Spingi con decisione l'allineatore contro il bordo del piano riscaldato.
- Stringi la vite, ma solo un po'.

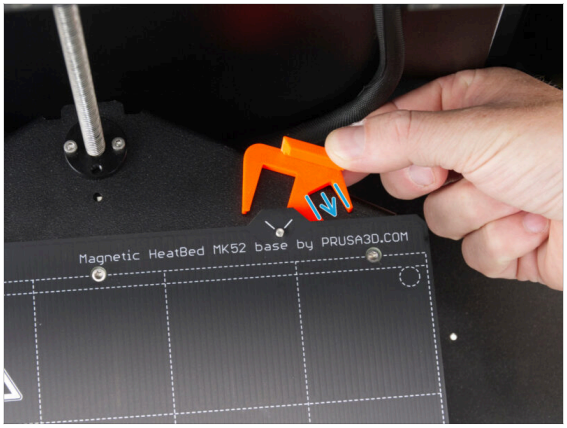
PASSO 16 Allineamento del giunto di espansione posteriore centrale

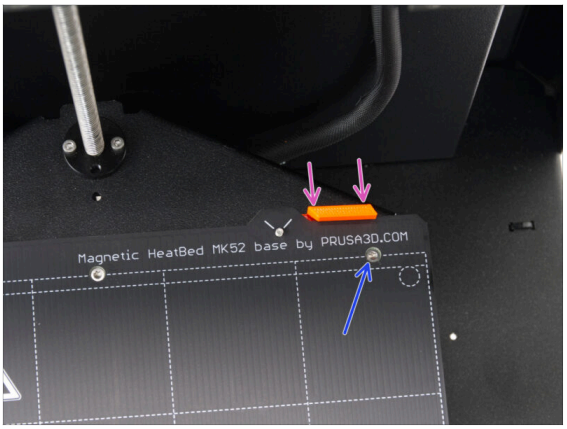


- Continue with the **middle rear** expansion joint.
- Fai scorrere la chiave a forcella sul giunto di espansione e spingi l'allineatore Expansion-joint-aligner contro il piano riscaldato. In questo modo il giunto di espansione verrà allineato.
- Spingi con decisione l'allineatore contro il bordo del piano riscaldato.
- Stringi la vite, ma solo un po'.

PASSO 17 Disconnecting the Nextruder cables - left side

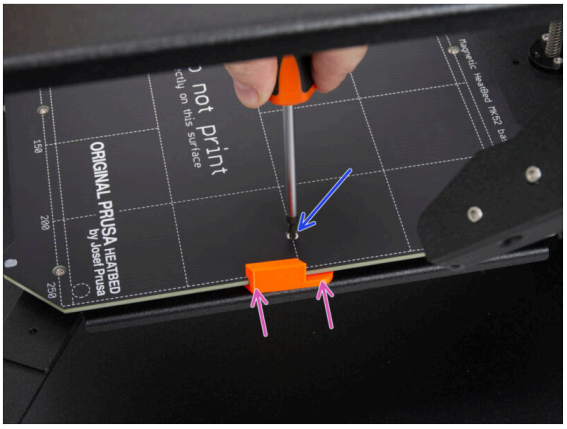
PASSO 18 Allineamento del giunto di espansione posteriore destro





- Continua con l'**angolo posteriore destro**.
- Fai scorrere la **parte angolata** della chiave a forcella sul giunto di espansione e spingi l'allineatore Expansion-joint-aligner contro il piano riscaldato. In questo modo il giunto di espansione verrà allineato.
- Spingi con decisione l'allineatore contro il bordo del piano riscaldato.
- Stringi la vite, ma solo un po'.

PASSO 19 Allineamento del giunto di espansione sul lato destro



- Spostati sul **lato destro** del piano riscaldato.
- Fai scorrere la chiave a forcella sul giunto di espansione e spingi l'allineatore Expansion-joint-aligner contro il piano riscaldato. In questo modo il giunto di espansione verrà allineato.
- Spingi con decisione l'allineatore contro il bordo del piano riscaldato.
- Stringi la vite, ma solo un po'.

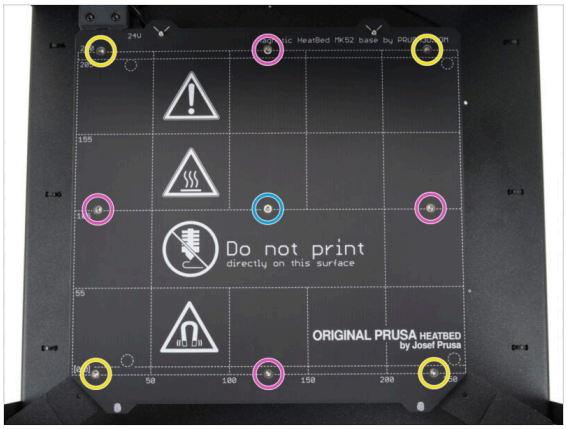
PASSO 20 Allineamento del giunto di espansione anteriore destro

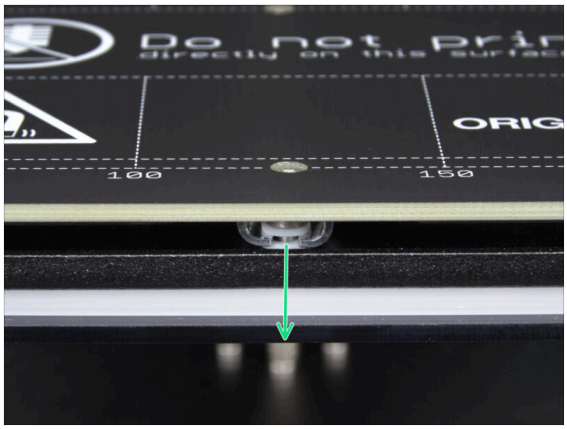
- Continua con l'**angolo anteriore destro**.

  ⓘ **Se stai convertendo la tua stampante alla versione Prusa INDX**, sposta il sensore di offset per far spazio all'allineamento di questo giunto di espansione, poi rimettilo al suo posto.

- Fai scorrere la chiave a forcella sul giunto di espansione e spingi l'allineatore Expansion-joint-aligner contro il piano riscaldato. In questo modo il giunto di espansione verrà allineato.
- Spingi con decisione l'allineatore contro il bordo del piano riscaldato.
- Stringi la vite, ma solo un po'.

PASSO 21 Fissare il piano riscaldato



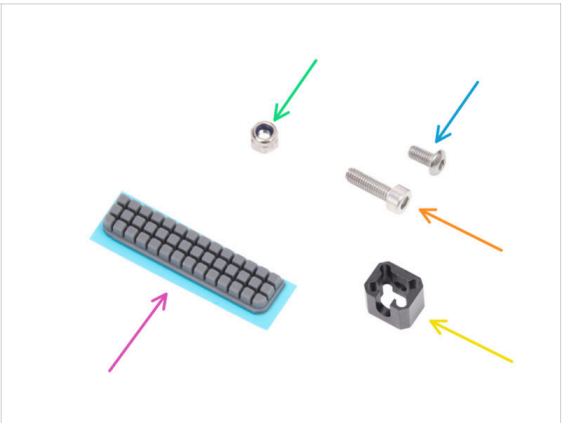


IMPORTANTE: il piano riscaldato va avvitato seguendo un ordine preciso. Ripeti la sequenza più volte, assicurandoti di dare un ultimo giro di avvitamento dopo almeno due giri.

- Dopo aver posizionato tutte le viti, stringile in questa sequenza:
  - Vite centrale
  - Prime quattro viti (bordi)
  - Ultime quattro viti (angoli)
- Stringi le viti delicatamente, ma con decisione.
- Controlla bene che il giunto di espansione non si sia ruotato e che la scanalatura sia rivolta verso l'esterno della stampante.

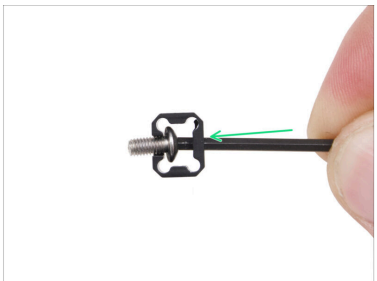
Se stai assemblando la Prusa INDX insieme all'aggiornamento GEN 2, **torna adesso all'articolo su Prusa INDX GEN 2**.

PASSO 22 Gruppo raschietto ugello: preparazione dei componenti



- **Per i seguenti passi prepara:**
- Nozzle-wiper-holder (1x)
- Raschietto dell'ugello (1x)
- dado M3n (1x)
- Vite M3x6r (1x)
- Vite M3x10 (1x)
- Giunto di espansione (1x) *che hai rimosso prima*

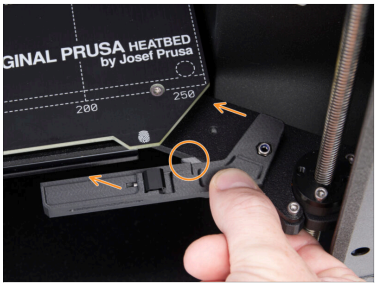
PASSO 23 Assemblare il raschietto dell'ugello

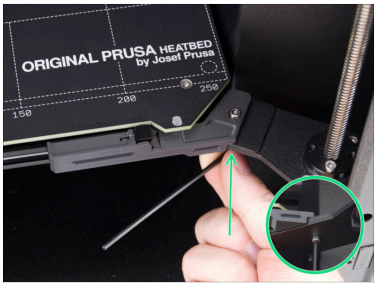


- Inserisci la vite M3x6r nel giunto di espansione con la testa della vite rivolta verso l'interno.
- Inserisci una chiave a brugola da 2,0 mm nel foro filettato per raggiungere la vite.
- Fissa il giunto di espansione al supporto Nozzle-wiper-holder e stringi la vite. Non stringere troppo.

  ⚠ **Do not overtighten the screw.** Tighten it gradually, backing the screw off slightly if you feel increased resistance. This helps prevent the expansion joint from splitting.

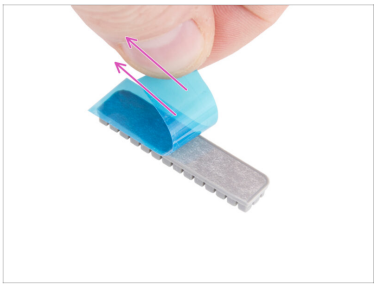
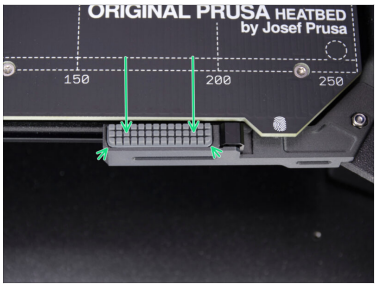
PASSO 24 Montaggio del raschietto dell'ugello

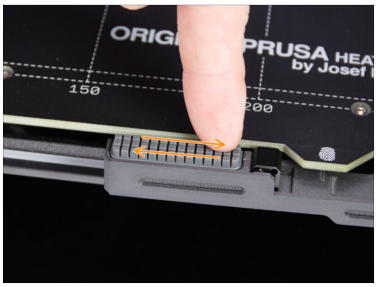




- Inserisci il dado M3nN nell'apertura esagonale.
- Posiziona il supporto Nozzle-wiper-holder sul lato destro del carrello Z.
- Fai scorrere il supporto Nozzle-wiper-holder lungo il carrello Z fino al gruppo del piano riscaldato.
  - Tieni d'occhio quella piccola linguetta sul supporto. Deve agganciarsi dietro il bordo della piastra sotto il piano riscaldato.
- Spingi con decisione il gruppo contro il piano riscaldato e fissalo dal lato inferiore del carrello Z usando la vite M3x10.

PASSO 25 Incollare il Raschietto

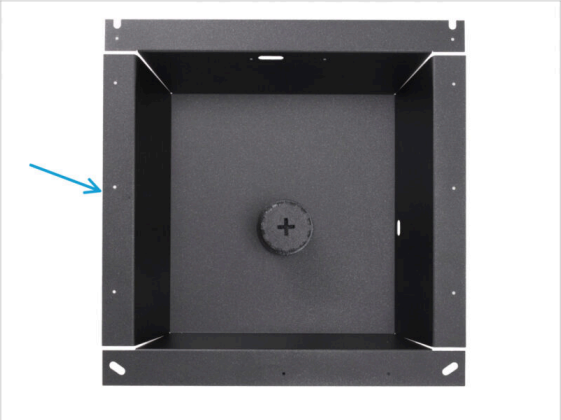


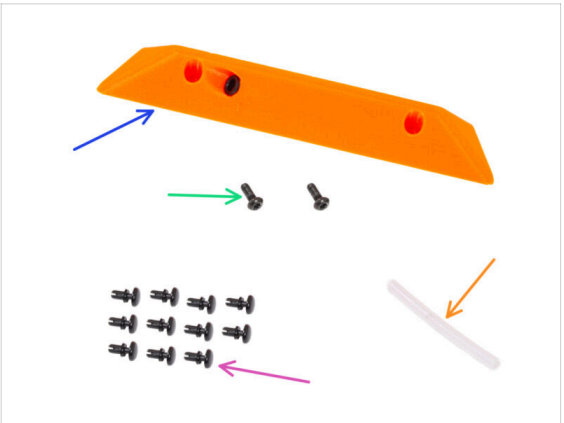
- Stacca la pellicola protettiva dal raschietto dell'ugello.

  ⓘ **Il cuscinetto è adesivo** sotto il layer protettivo. Evita di toccare la superficie adesiva.
- Inserisci il raschietto nell'apposita cavità del gruppo del pulitore ugello.

  Note that the pad has **rounded corners** on one side. Match them to the shape of the recess.
- Run your finger over the entire surface of the nozzle wiper pad several times to ensure it is evenly adhered and fully seated.

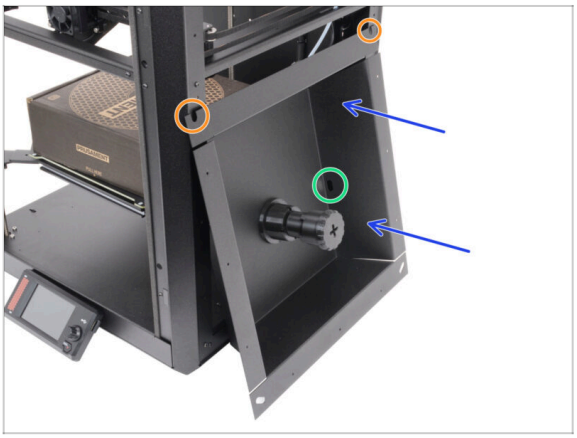
PASSO 26 Piastra metallica destra: preparazione dei componenti





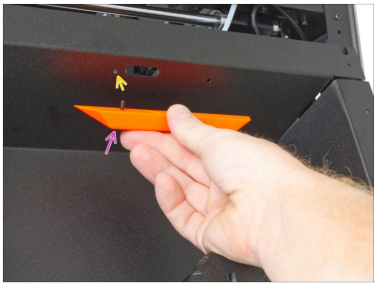
- **Per i seguenti passi prepara:**
- Right side sheet metal (1x) *you removed earlier*
- Maniglia laterale (1x) *che hai rimosso prima*
- Vite M3x8rT (2x) *rimosse in precedenza*
- Tubo in PTFE 4 x 2,5 x 45 mm (1 pz.) *che hai rimosso prima*
- Rivetto in nylon (11x) *che hai rimosso prima*

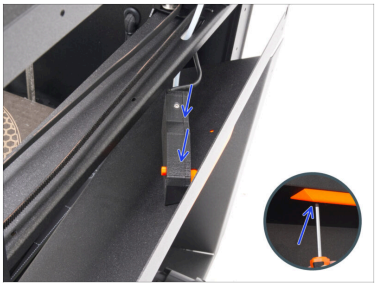
PASSO 27 Preparare la lamiera destra



- Appoggia con cura la piastra di destra contro la stampante.
  - Gli intagli a forma di U devono essere rivolti verso l'alto.
  - The oval opening must be on the right side of the sheet.

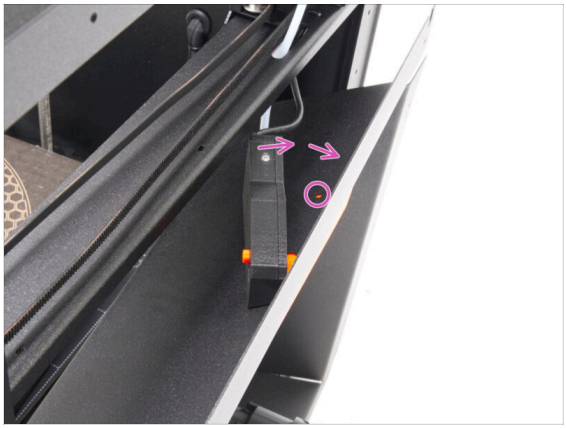
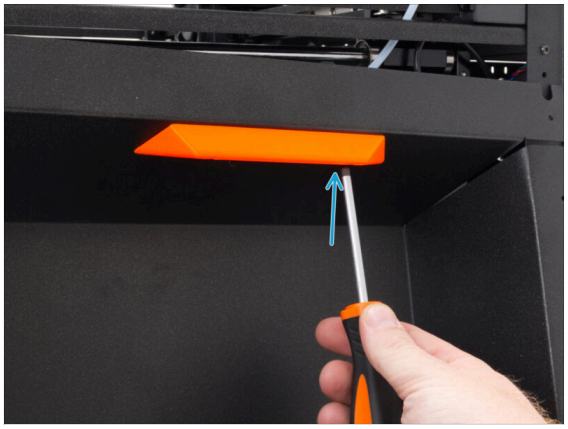
PASSO 28 Montare la maniglia e il FS





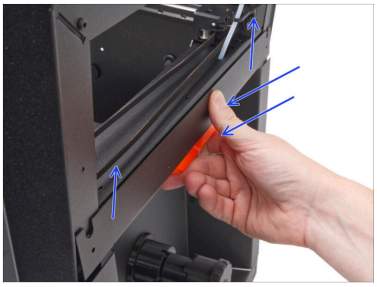
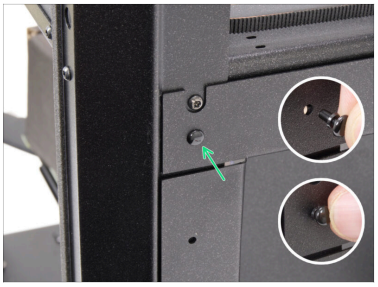
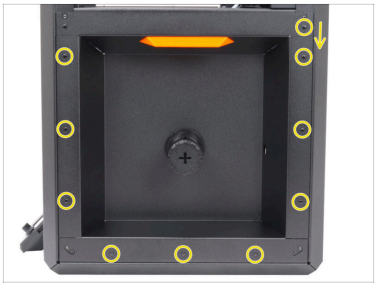
- Inserisci una vite M3x8rT nel foro a sinistra della maniglia laterale.
- Appoggia la maniglia laterale contro l'apertura nel pannello laterale e allineala.
- Fai passare la vite attraverso il pannello.
- Dal lato opposto, allinea il sensore del filamento laterale con la vite.
- Place the filament sensor onto the screw and tighten it.

PASSO 29 Fissaggio del sensore di filamento laterale

- Allinea il sensore del filamento laterale con il secondo foro di montaggio.
- Fissalo con una vite M3x8rT inserita attraverso la maniglia laterale.

PASSO 30 Montare la lamiera destra

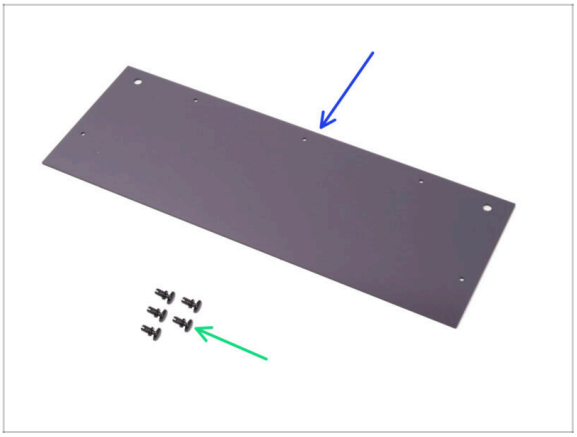




- Premi delicatamente la lamiera contro il telaio della stampante mentre la fai scorrere verso l'alto.
- Mettila in posizione e fissala con un rivetto di nylon nell'angolo in alto a sinistra.
  - Allinea i fori.
  - Inserisci il rivetto in nylon nel foro e spingilo leggermente verso l'interno.
  - Poi premilo con decisione finché non è ben inserito.
- Con lo stesso metodo, continua con i restanti dieci fori. Inizia dall'alto.

PASSO 31 Inserimento tubo in PTFE

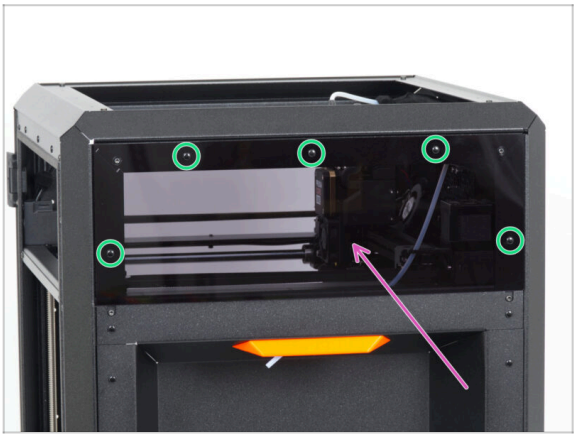
- Individua il colletto nero all'interno dell'impugnatura laterale.
- Inserisci completamente il tubo in PTFE nella maniglia laterale.

PASSO 32 Pannello laterale destro: preparazione dei componenti



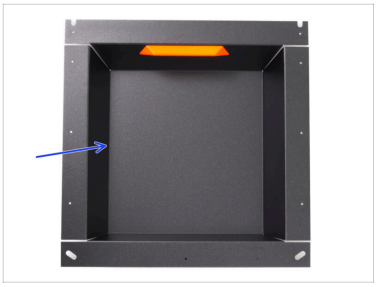
- **Per i seguenti passi prepara:**
- Pannello laterale (1x) *che hai rimosso prima*
- Rivetto in nylon (5x) *che hai rimosso prima*

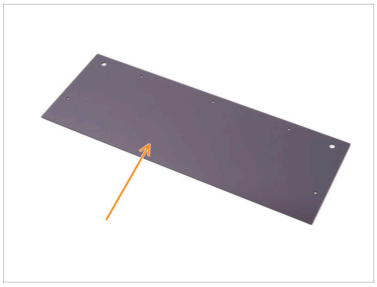
PASSO 33 Installare il pannello laterale destro

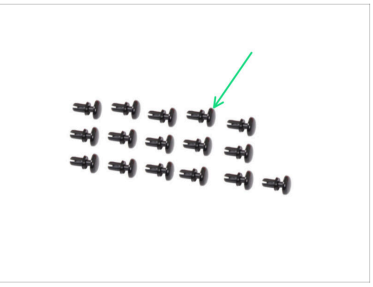


- Posiziona il pannello laterale sul lato destro della stampante, sopra la lamiera.
- Fissalo con cinque rivetti in nylon.

PASSO 34 Lato sinistro: preparazione dei componenti

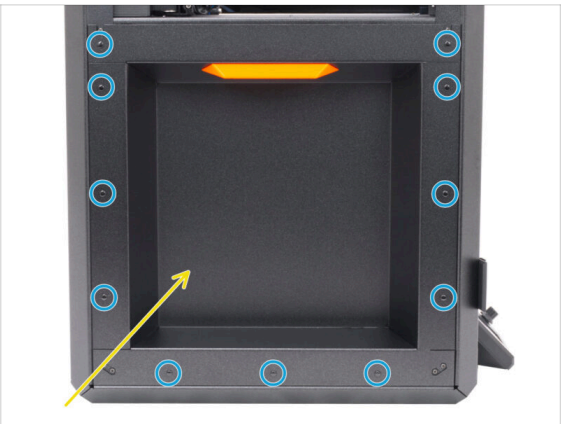


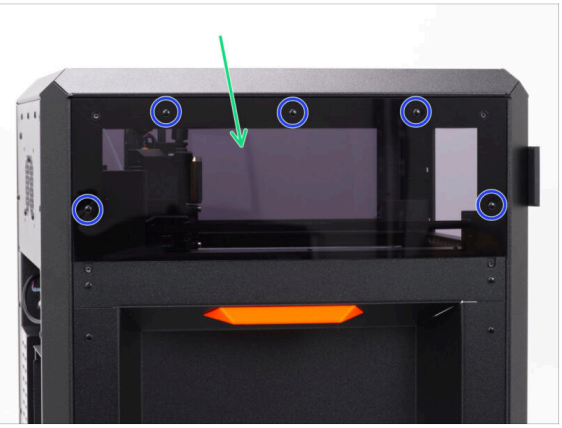




- **Per i seguenti passi prepara:**
- Lamiera laterale sinistra (1x) *che hai rimosso prima*
- Pannello laterale (1x) *che hai rimosso prima*
- Rivetto in nylon (16x) *che hai rimosso prima*

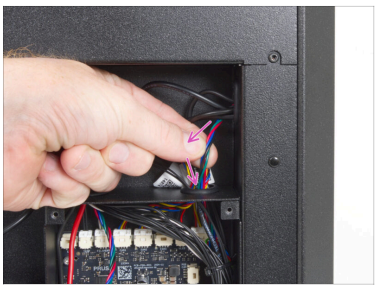
PASSO 35 Installazione dei pannelli del lato sinistro

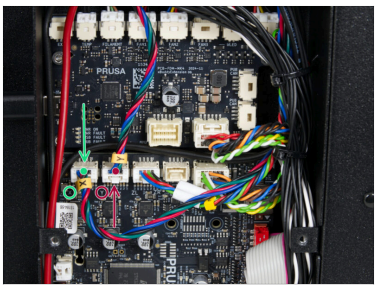




- Insert the left side metal sheet into the printer frame from the left side.
- Fissalo con undici rivetti in nylon.
- Posiziona il pannello laterale sopra la piastra laterale.
- Fissalo con cinque rivetti in nylon.

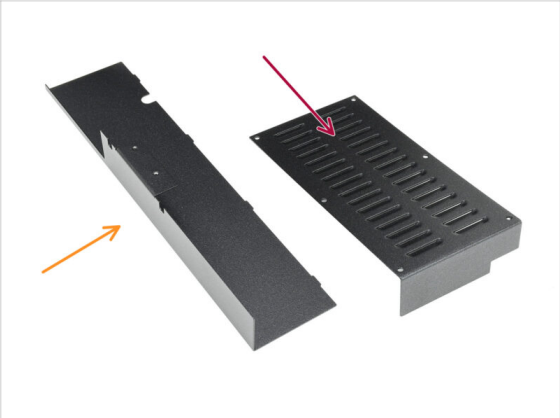
PASSO 36 Connettere i cavi del motore

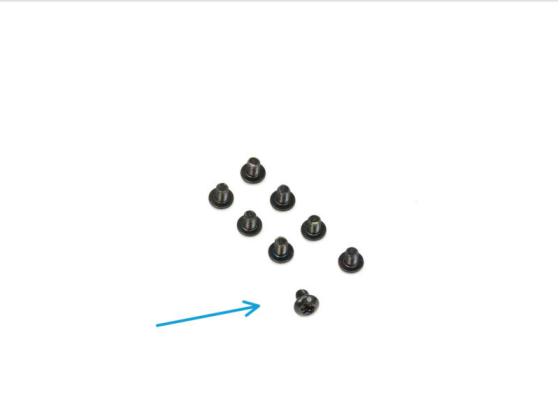




- Vai sul retro della stampante.
- Tira delicatamente il cavo del motore posteriore destro indietro verso l'elettronica. **Smetti di tirare se senti resistenza**.
- Tira delicatamente il cavo del motore posteriore sinistro indietro verso l'elettronica. **Smetti di tirare se senti resistenza**.
- Collega il cavo del motore **sinistro** (motore X) al connettore sinistro. Sulla scheda è contrassegnato con la lettera X.
- Collega il cavo del motore **destro** (motore Y) al connettore destro. Sulla scheda è contrassegnato con la lettera Y.

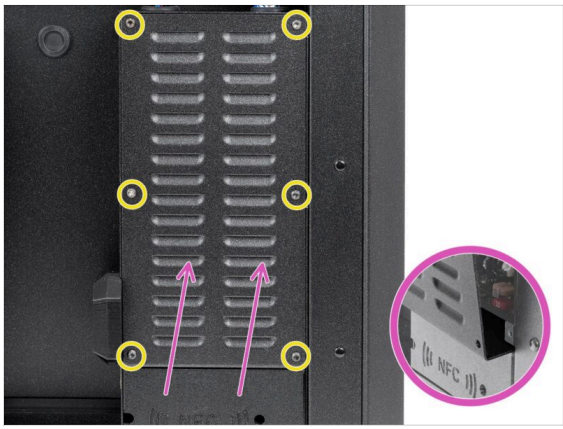
PASSO 37 Copertura xBuddy: preparazione dei componenti





- **Per i seguenti passi prepara:**
  - Piastra di copertura posteriore (1x) *si trova nella confezione Metal parts 2/3*
  - Copertura xBuddy (1x) *si trova nella confezione Metal parts 3/3*
  - Vite M3x4rT (8x)

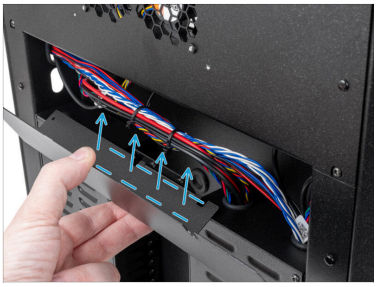
PASSO 38 Coprire la scheda xBuddy

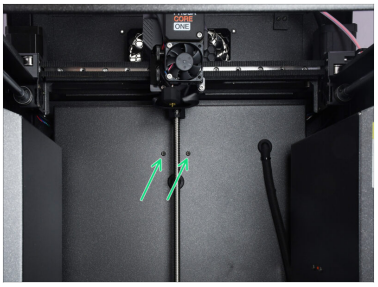


- Coprire con cura la scatola xBuddy facendo scorrere la parte piegata del coperchio all'interno della scatola.
  - Evita di schiacciare i cavi e assicurati che la copertura sia inserita parallela alla scheda xBuddy.
- Fissa la copertura della scatola xBuddy con le sei viti M3x4rT.
- Avvolgi due fascette intorno al fascio di cavi nella parte superiore per tenerli in ordine e ben fissati.

  Taglia con attenzione la parte in eccesso; fai attenzione a non tagliare i cavi.

PASSO 39 Coprire i cavi



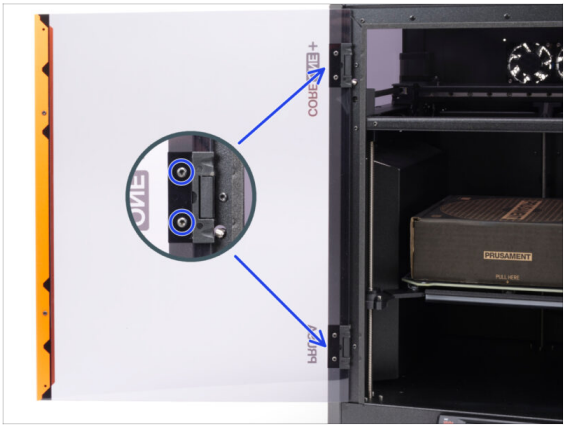


- Allinea la copertura posteriore in piastra in modo che i cavi possano passare attraverso la piattaforma.
- Spingi la copertura posteriore verso la stampante, poi spostala verso l'alto.
- Assicurati che la copertura del cavo si inserisca nelle quattro aperture presenti sul coperchio posteriore della stampante.
- Dall'interno della stampante, fissa la copertura posteriore utilizzando due viti M3x4rT dall'interno della stampante.

PASSO 40 Pannello dello sportello: preparazione dei componenti

- **Per i seguenti passi prepara:**
- Pannello sportello (1x) *rimosso in precedenza*
- Vite M3x5rT (4x) *rimosse in precedenza*

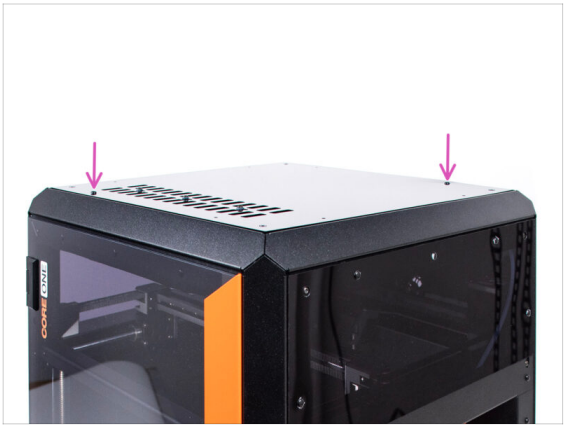
PASSO 41 Installazione del pannello dello sportello



⚠ **Assicurati che il pannello dello sportello sia orientato correttamente**, in modo che il logo PRUSA CORE One+ sia visibile dall'esterno della stampante quando lo sportello è chiuso.

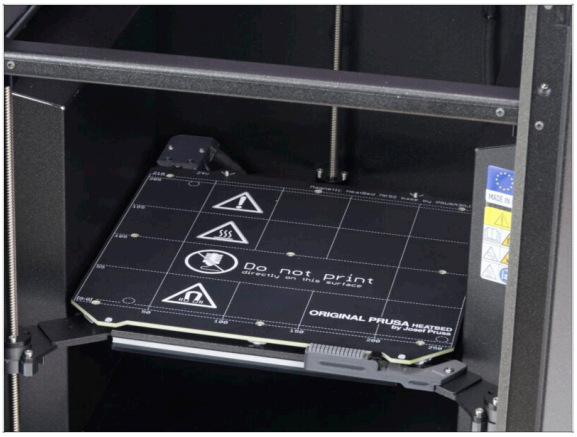
- Fai scivolare i ritagli del pannello dello sportello di nuovo sui cardini.
- Fissa il pannello dello sportello avvitando due viti M3x5rT in ciascuna cerniera.
  - **Non serrare eccessivamente le viti** per evitare di danneggiare il pannello dello sportello.

PASSO 42 Installare la copertura superiore



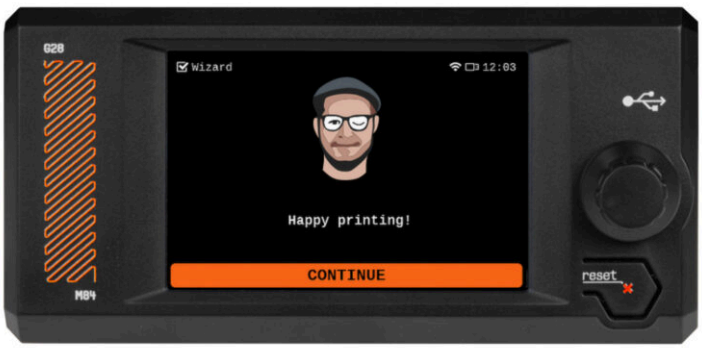
- Allinea il coperchio con la cornice metallica nell'angolo all'estrema destra.
- Allinea anche la copertura con l'incavo nella parte anteriore
- Fissa la copertura in posizione utilizzando due rivetti di nylon nelle aperture contrassegnate.

PASSO 43 Fatto

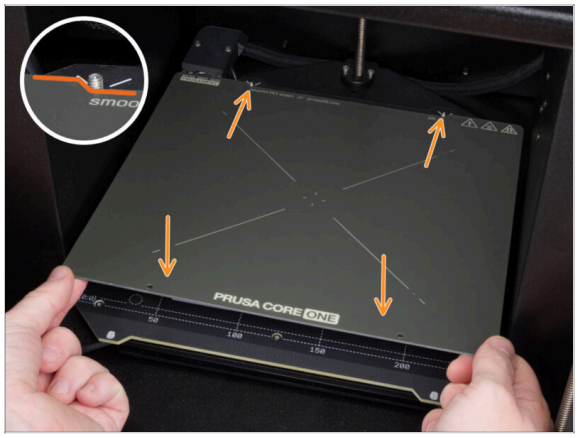


- **Congratulazioni!** Hai appena completato l'aggiornamento del piano riscaldato.
- Ora passa al **capitolo finale**.

5. Controllo finale



PASSO 1 Piastra di stampa

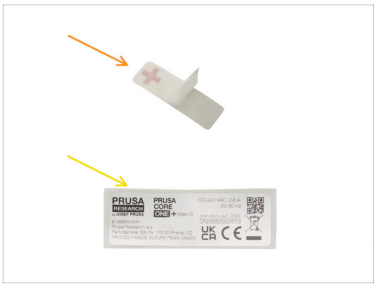


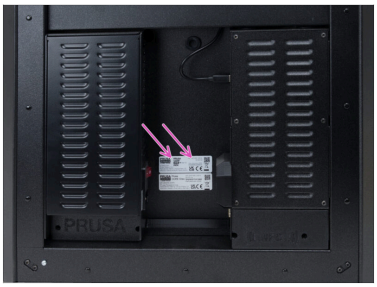
- Riposiziona la piastra di stampa.

⚠ **Assicurati che non ci sia nulla sul piano riscaldato.** Il piano riscaldato deve essere pulito in quanto lo sporco può danneggiare la superficie del piano riscaldato e della piastra di stampa.

- **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.

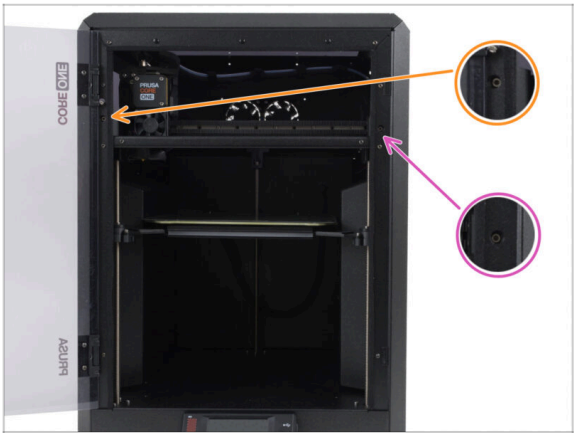
PASSO 2 Preparazione adesivi





- **Per le fasi successive, prepara:**
- CORE One+ sticker
- GEN 2 SN sticker
- Peel the CORE ONE+ sticker off the base and place it on the CORE ONE+ logo on the door.
- Make sure to align the sticker with the outline of the "ONE". Apply pressure and then remove.
- Place the GEN 2 SN sticker above the original SN sticker on the back of the printer.

PASSO 3 Tensionamento della cinghia



Questo capitolo ti guiderà nella calibrazione e nella preparazione della stampante per il suo primo utilizzo. Iniziando con la tensione delle cinghie:

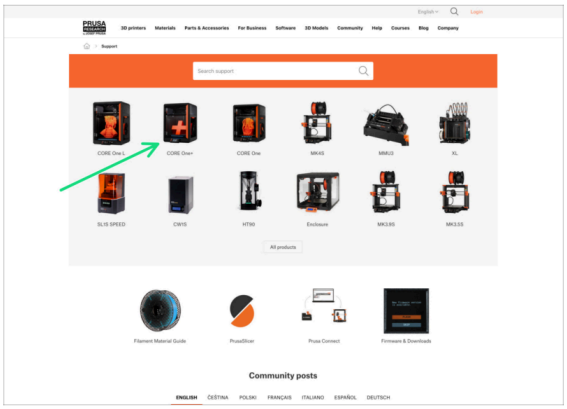
- The left screw adjusts the upper belt.
- The right screw adjusts the lower belt.

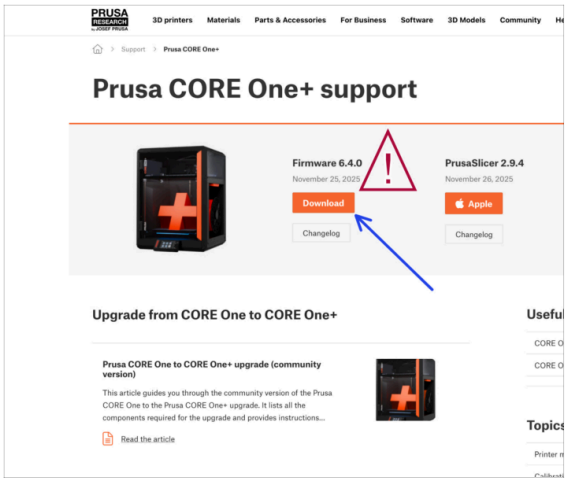
WARNING: Incorrect procedure may result in damage to plastic parts or seizing of screws. Before adjusting the belt tension, read the dedicated article:

- **Adjusting belt tension (CORE One)**

Do not forget to come back here after adjusting the belts.

PASSO 4 Scaricare il Firmware





- Dovremo aggiornare il firmware.
  - The CORE One+ requires firmware version 6.8.1 or newer.
- Visit the CORE One+ support page on help.prusa3d.com.
- Download the latest firmware file (.bbf).
  Save the file onto a USB drive.

PASSO 5 Flash del Firmware

- Inserisci nella stampante la chiavetta USB con il file del firmware.
- 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.

PASSO 6 Cambiare l'edizione della stampante

Dopo aver completato l'aggiornamento a CORE One+ (Gen 2), **modifica la versione della stampante in CORE One+ (Gen 2).**

Questo è necessario perché la Gen 2 utilizza cinghie e pulegge con un passo dei denti diverso.

- Vai su *Impostazioni* *Hardware* *Edizione*→ *Hardware* *Edizione*→ *Edizione* e seleziona **CORE One+ Gen2**.
- La stampante ti chiederà di confermare la modifica dell'edizione. Seleziona ***Sì***.

PASSO 7 Autotest

- Dopo aver completato l'aggiornamento, ti consigliamo di visitare il menu ***Controllo -> Calibrazioni e test*** ed eseguire l'Autotest dall'inizio.

PASSO 8 Completa

Congratulazioni! La tua CORE One+ (Gen 2) aggiornata è pronta per partire!

- **Buona stampa!**

Registro modifiche del manuale

PASSO 1 Storico versioni

- **Version of the Prusa CORE One+ (Gen 2) upgrade manual:**
- 08/2026 - Versione iniziale 1.00

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