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Cylinder AX Modularity

Manual

01.09.2022

Simons Voss
technologies

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1 General safety instructions

Signal word (ANSI Z535.6)	Possible immediate effects of non-compliance
DANGER	Death or serious injury (likely)
WARNING	Death or serious injury (possible, but unlikely)
CAUTION	Minor injury
IMPORTANT	Property damage or malfunction
NOTE	Low or none



WARNING

Blocked access

Access through a door may stay blocked due to incorrectly fitted and/or incorrectly programmed components. SimonsVoss Technologies GmbH is not liable for the consequences of blocked access such as access to injured or endangered persons, material damage or other damage!

Blocked access through manipulation of the product

If you change the product on your own, malfunctions can occur and access through a door can be blocked.

- ❑ Modify the product only when needed and only in the manner described in the documentation.

IMPORTANT

Damage resulting from liquids

This product contains electronic and/or mechanic components that may be damaged by liquids of any kind.

- ❑ Keep liquids away from the electronics.

Damage resulting from aggressive cleaning agents

The surface of this product may be damaged as a result of the use of unsuitable cleaning agents.

- ❑ Only use cleaning agents that are suitable for plastic or metal surfaces.



NOTE

Intended use

SimonsVoss-products are designed exclusively for opening and closing doors and similar objects.

- ❑ Do not use SimonsVoss products for any other purposes.

Qualifications required

The installation and commissioning requires specialized knowledge.

- Only trained personnel may install and commission the product.

Incorrect installation

SimonsVoss Technologies GmbH accepts no liability for damage caused to doors or components due to incorrect fitting or installation.

Modifications or further technical developments cannot be excluded and may be implemented without notice.

The German language version is the original instruction manual. Other languages (drafting in the contract language) are translations of the original instructions.

Read and follow all installation, installation, and commissioning instructions. Pass these instructions and any maintenance instructions to the user.

2 Product-specific safety instructions



WARNING









Malfunction of the anti-panic function due to unauthorised manipulation

The length of the Digital Cylinder AX can be modified on the inside from 50 mm. If the AP side is removed, the anti-panic unit may be damaged.

- ❑ Do not change the length on the AP side.

3 Accessories and tools

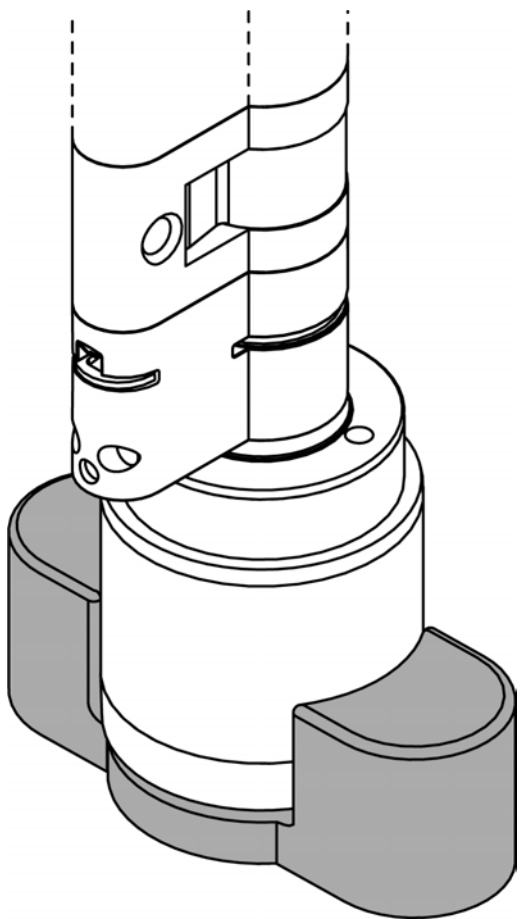
The profile cylinder can be extended and shortened with the following parts:

Extension bolt	Core extension for the profile	Profile extension
 <ul style="list-style-type: none"> ■ Z5.BOLT.XX (XX = required basic length) 	 <ul style="list-style-type: none"> ■ Z5.CORE.05: 5 mm ■ Z5.CORE.10: 10 mm ■ Z5.CORE.20: 20 mm 	 <ul style="list-style-type: none"> ■ Z5.PROFILE.05: 5 mm ■ Z5.PROFILE.10: 10 mm ■ Z5.PROFILE.20: 20 mm
Clamps	Half cylinder centre piece	Cylinder centre piece
 <ul style="list-style-type: none"> ■ Z5.CLAMPS <p>Set contains 50 units.</p>	 <ul style="list-style-type: none"> ■ Z5.CNT.HZ 	 <ul style="list-style-type: none"> ■ Z5.CNT.EU
Cam (standard, WP)	Inside thumb-turn mount	
 <ul style="list-style-type: none"> ■ Z5.CAM.WP 	 <ul style="list-style-type: none"> ■ Z5.PR.IN 	

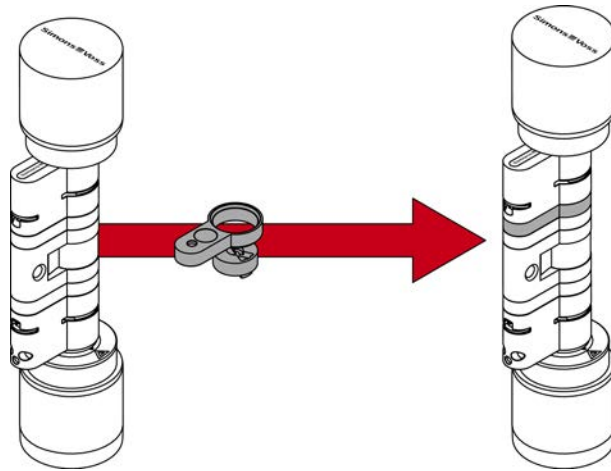
To do this, you need the following tools:

Extractor (Z5.LIFTER)	SPACER (Z5.SPACER)	Terminal BLOCK (Z5.BLOCK)
		

The Cylinder AX thumb-turn assembly tool is designed so that you can use it as a bracket for the Cylinder AX. Place it with the flat side on a flat surface and place the Cylinder AX with the knob in the assembly tool. Reassembly is easier if the AX cylinder is in the bracket.



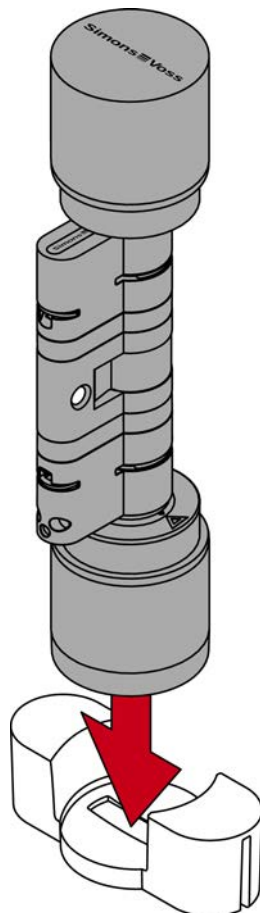
4 Extend Cylinder AX



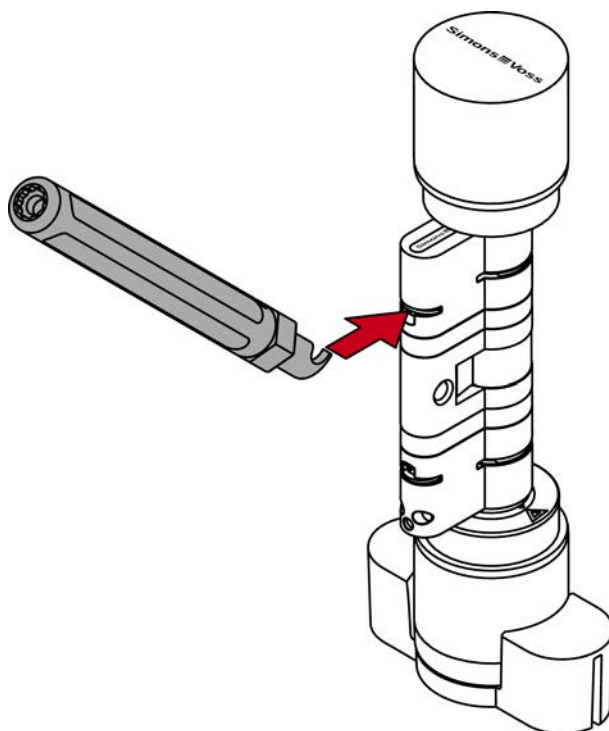
The core extension and profile extension must be the same length. You also need an extension bolt for the desired length.

- ✓ Extractor for releasing the clamp
- ✓ Spacer for aligning the extension bolt
- ✓ Clamp block for pressing in the clamp

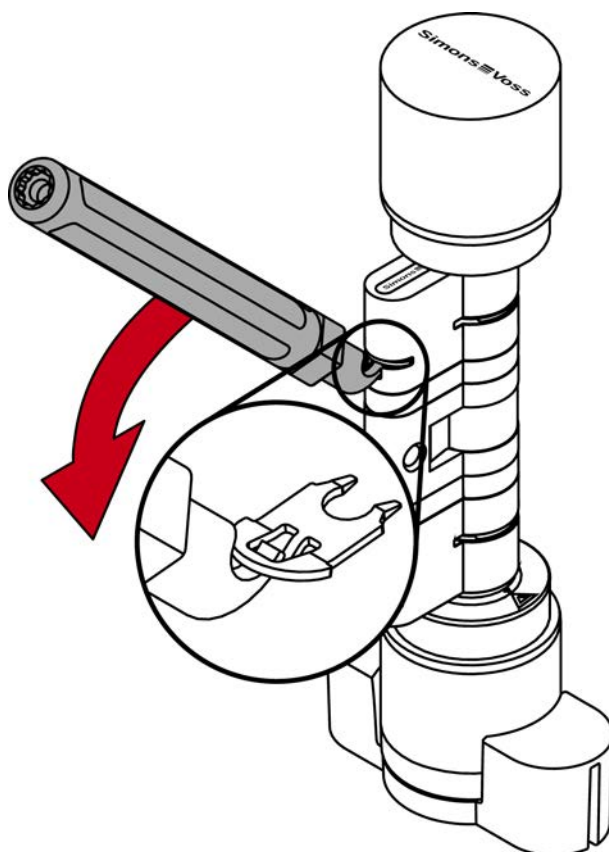
1. Place the Cylinder AX in the thumb-turn assembly tool.



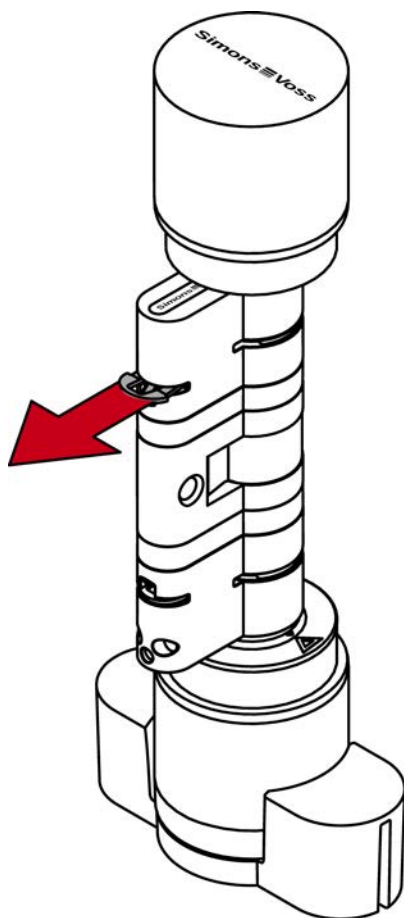
2. Hook the tip of the extractor into the clamp.



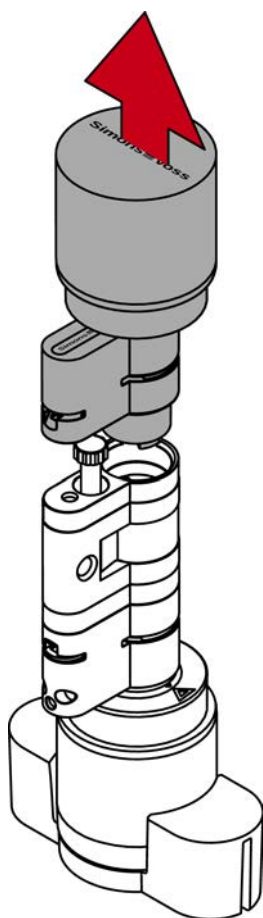
3. Lever the clamp out of the profile cylinder by moving the extractor to the centre of the cylinder.



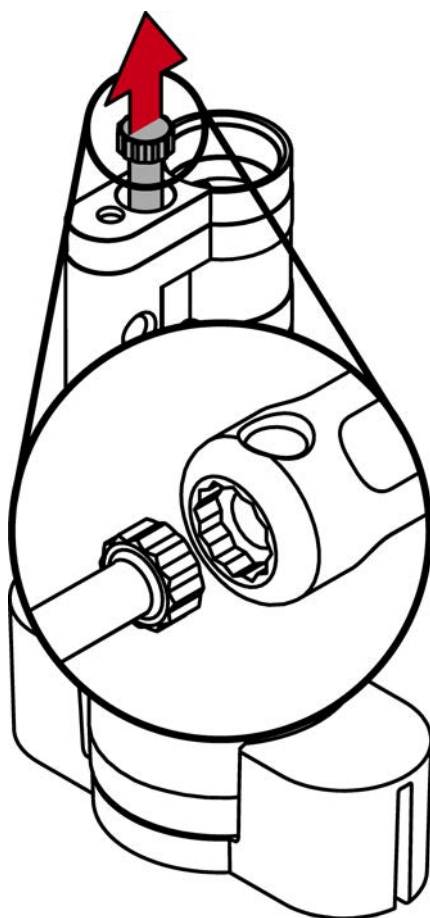
4. Pull the clamp completely out of the profile cylinder.



5. Disassemble the two cylinder halves.

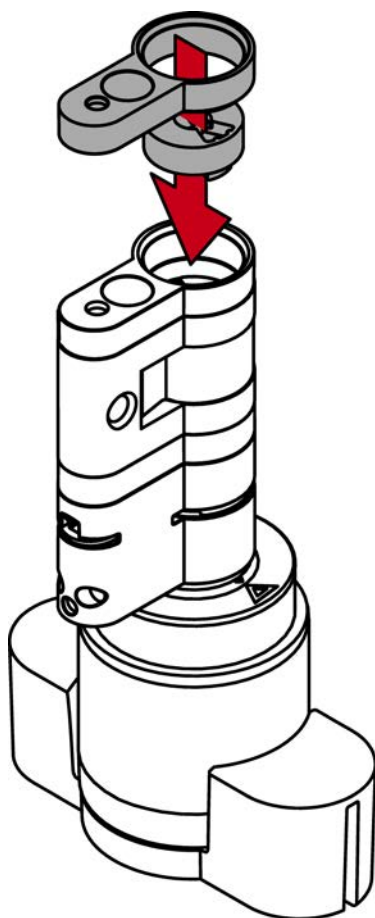


6. Use the extractor to unscrew the extension bolt.

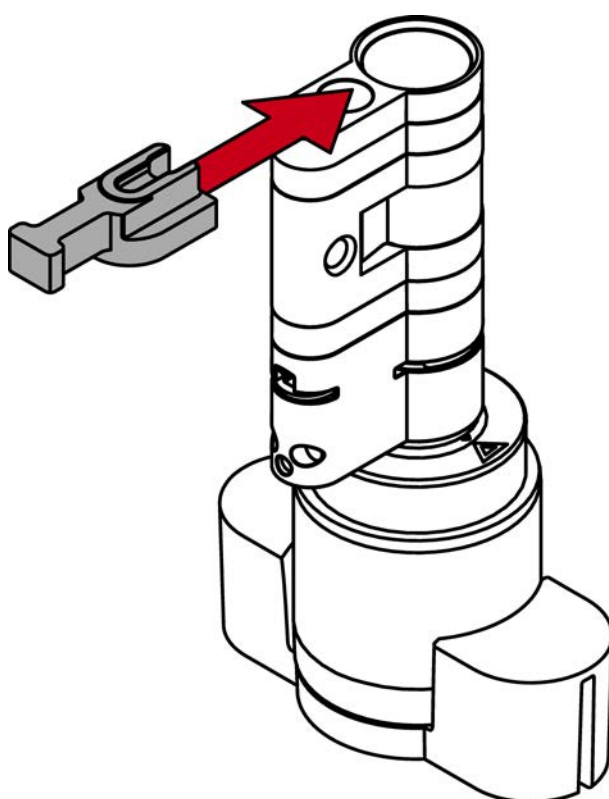


7. Insert suitable core extensions.

8. Attach suitable profile extensions.



9. Place the spacer.



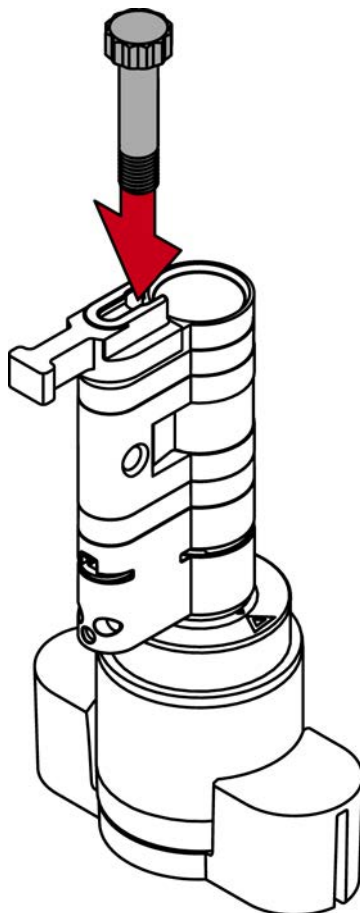
10. Screw in a suitable extension bolt with the extractor until it rests on the spacer.



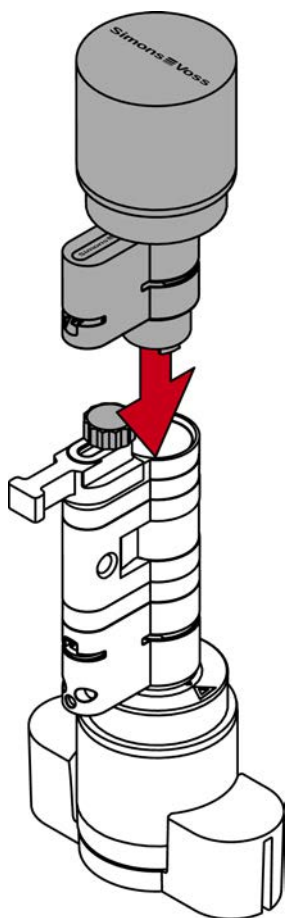
NOTE

Length on bolt head

You will find a number on the bolt head. This number is the length of the cylinder profile to which the bolt fits.

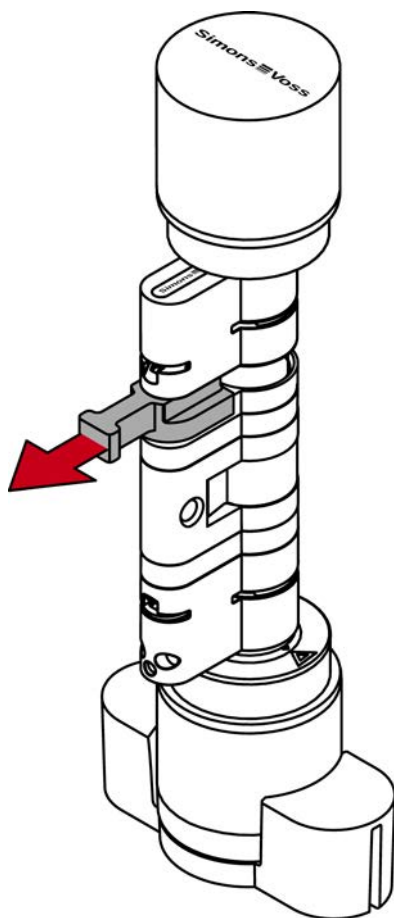


11. Reassemble the two cylinder halves.

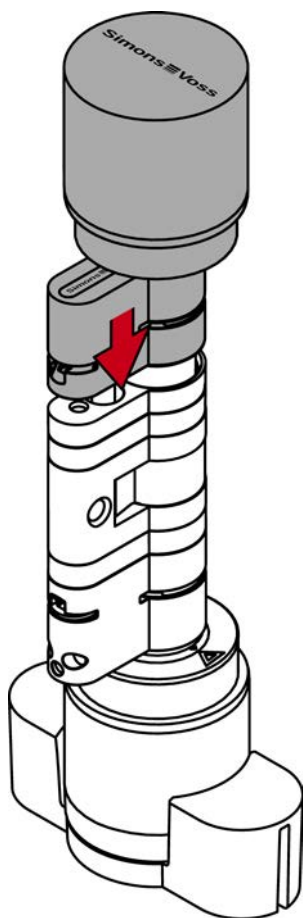


↳ Extension bolt is protected against twisting.

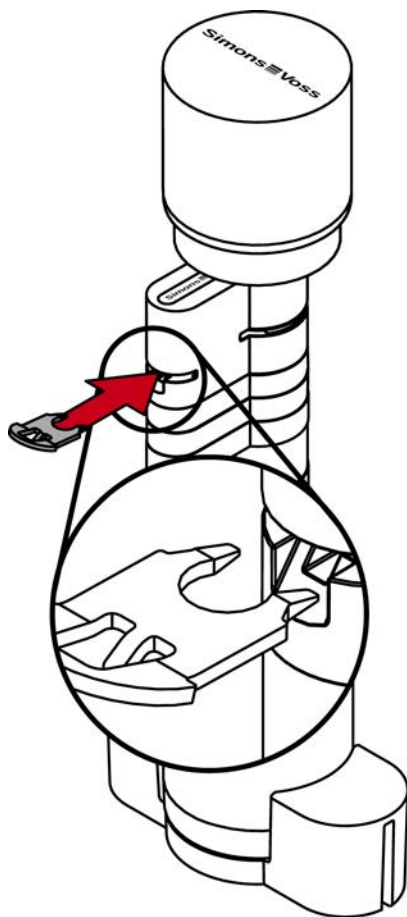
12. Pull the spacer off again.



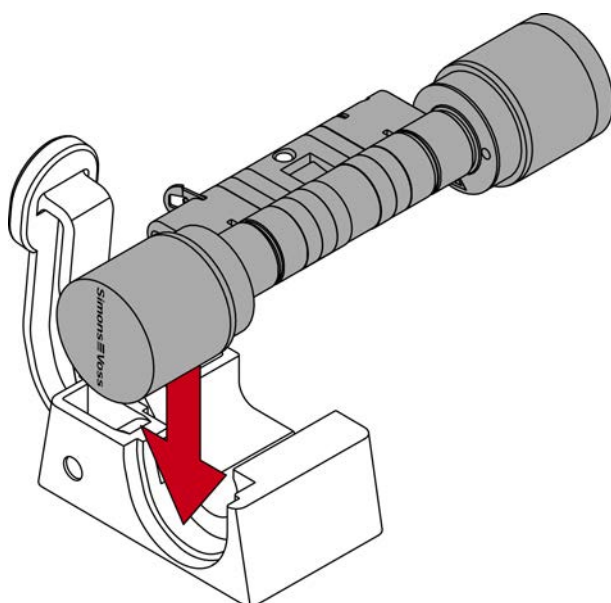
13. Push the halves together completely.



14. Place the clip back into the slot of the profile cylinder with its lug facing the fastening screw and press the clamp with your thumb so that it can no longer fall out.

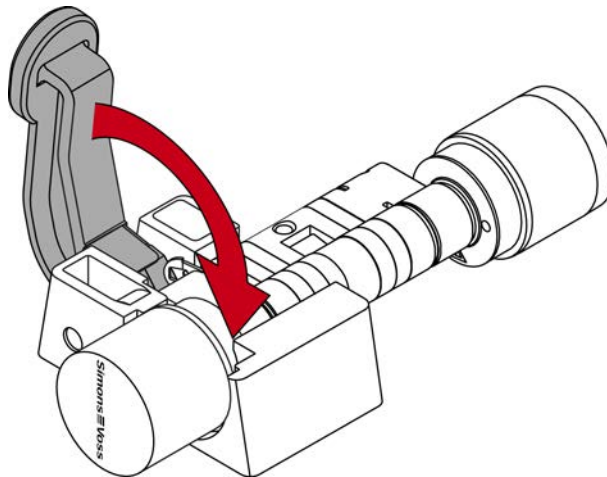


15. Insert the cylinder into the clamping block so that the profile cylinder and the thumb-turn lie flush in the recesses.

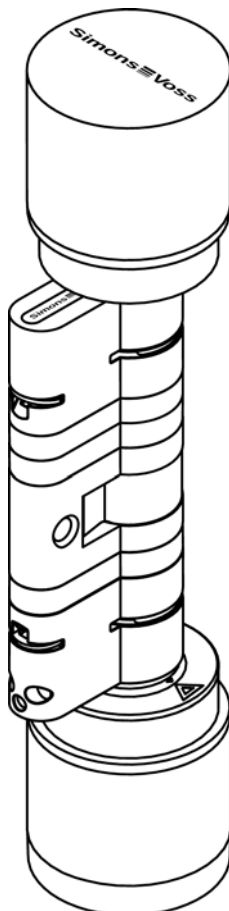


- ↳ The lever of the clamping block is reinforced at one point with a metal plate. The bracket that was previously inserted lies opposite this metal plate.

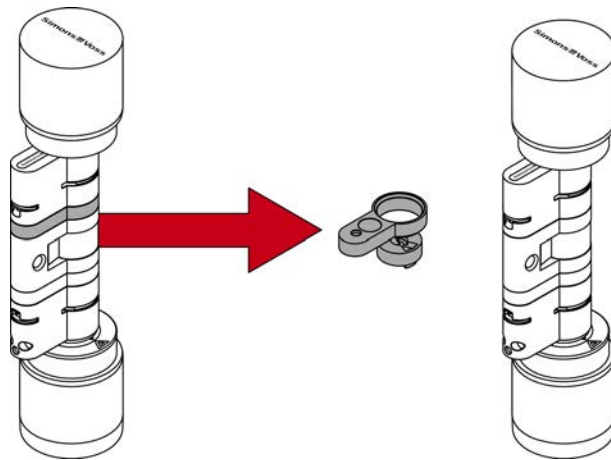
16. Push the clamp block lever towards the base plate until the clamp is fully seated in the profile cylinder.



- ↳ Cylinder AX is extended.



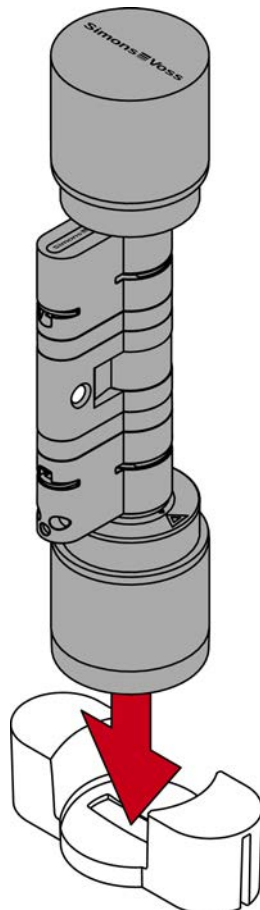
5 Shorten Cylinder AX



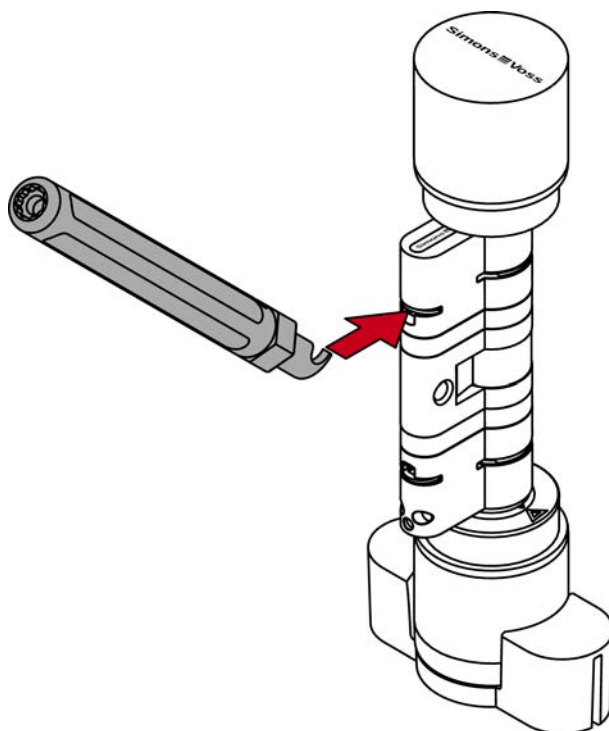
You need a bolt for the desired length.

- ✓ Extractor for releasing the clamp
- ✓ Spacer for aligning the bolt
- ✓ Clamp block for pressing in the clamp

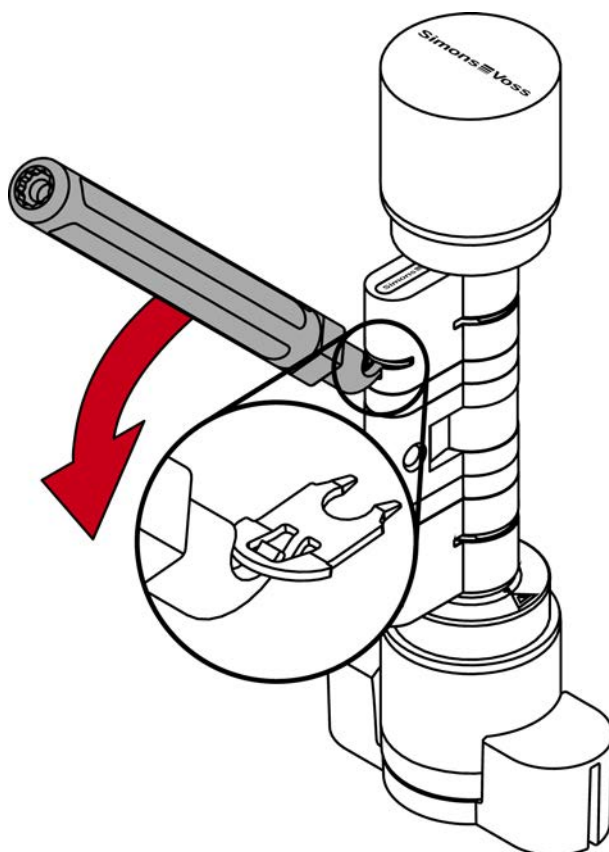
1. Place the Cylinder AX in the thumb-turn assembly tool.



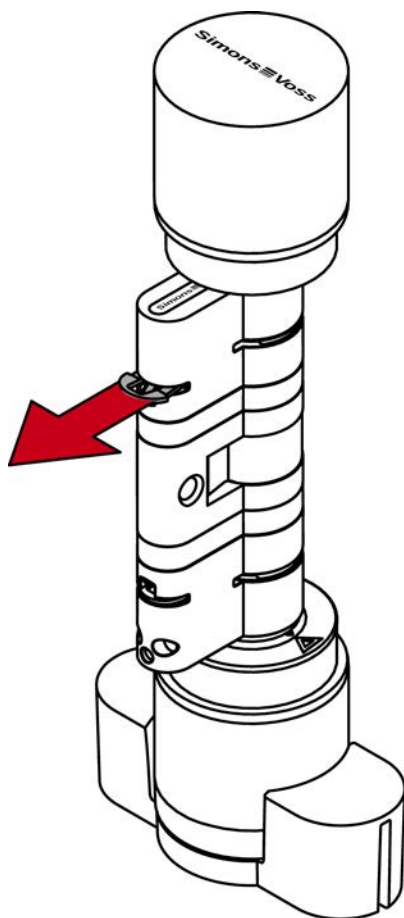
2. Hook the tip of the extractor into the clamp.



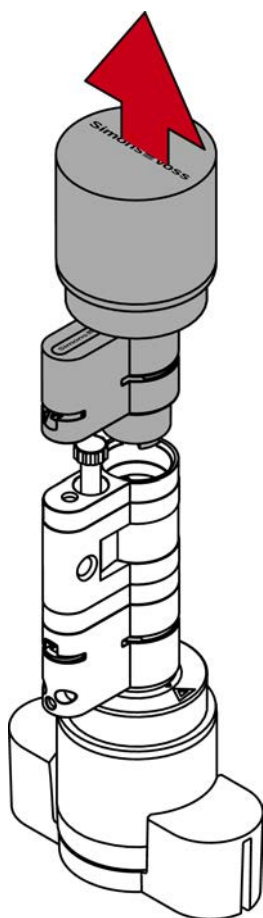
3. Lever the clamp out of the profile cylinder by moving the extractor to the centre of the cylinder.



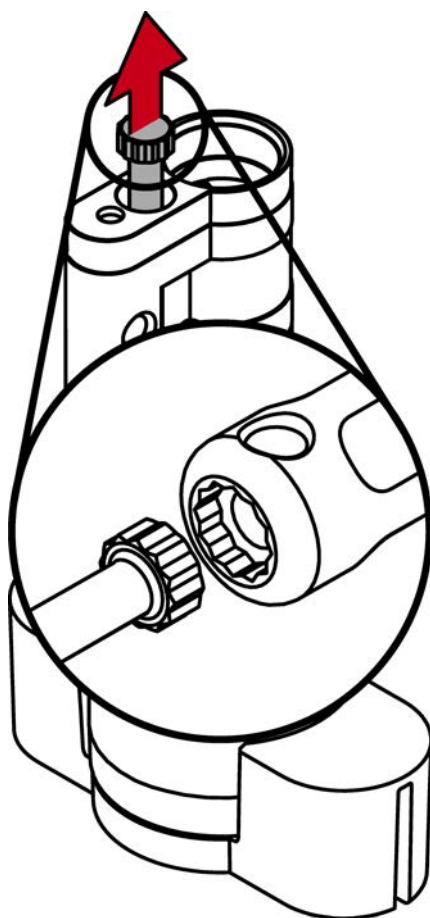
4. Pull the clamp completely out of the profile cylinder.



5. Disassemble the two cylinder halves.

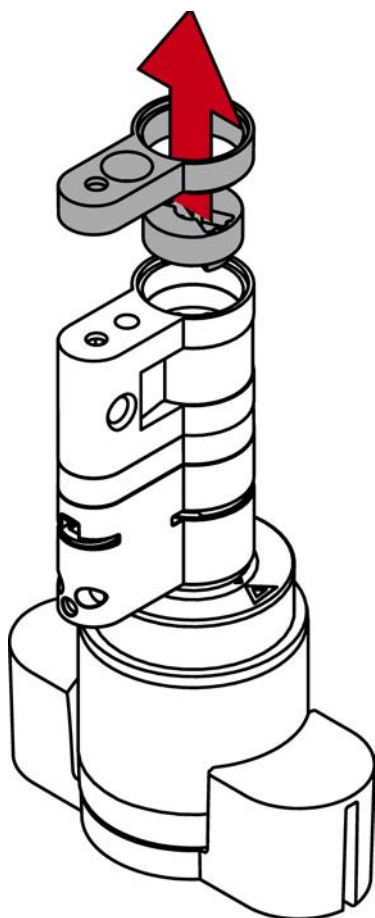


6. Unscrew the bolt with the extractor.

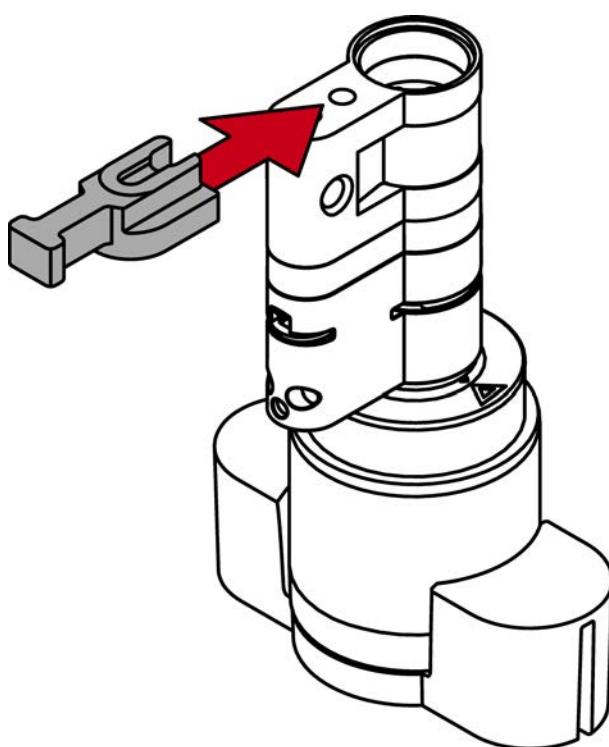


7. Remove the profile extension.

8. Remove the core extension.



9. Place the spacer.



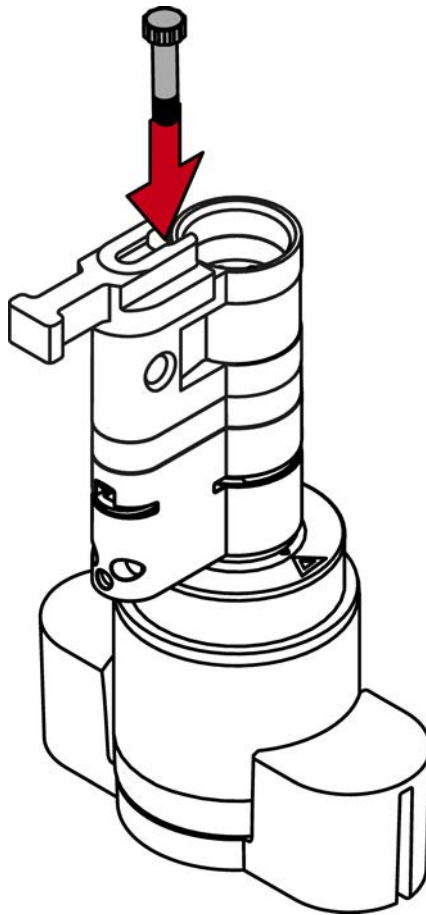
10. Screw in a suitable bolt with the extractor until it rests on the spacer.



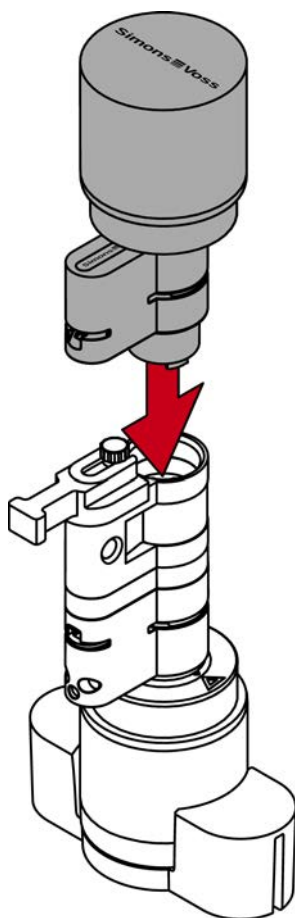
NOTE

Length on bolt head

You will find a number on the bolt head. This number is the length of the cylinder profile to which the bolt fits.

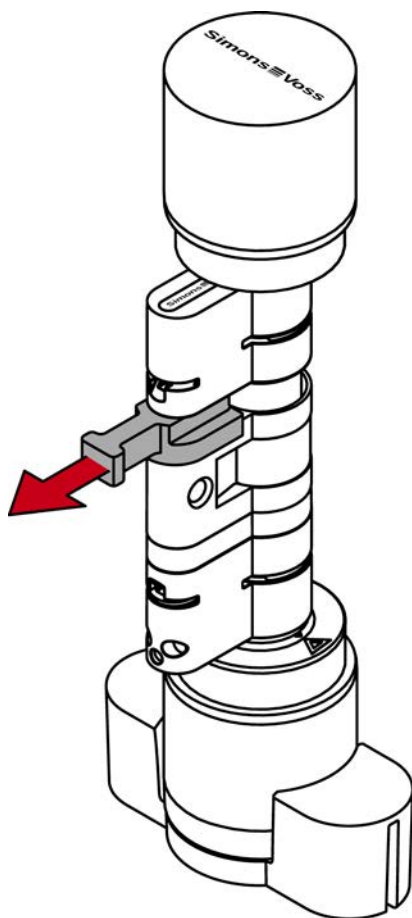


11. Reassemble the two cylinder halves.

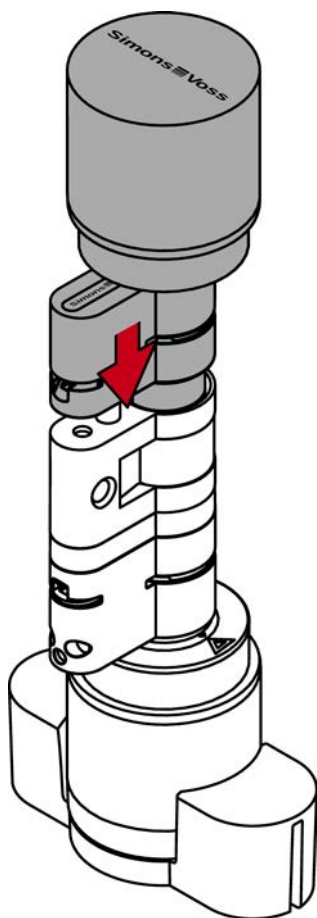


↳ Bolt is protected against twisting.

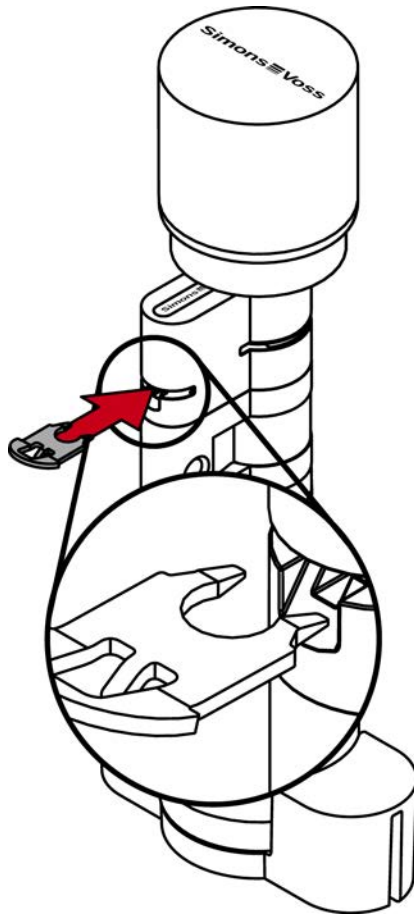
12. Pull the spacer off again.



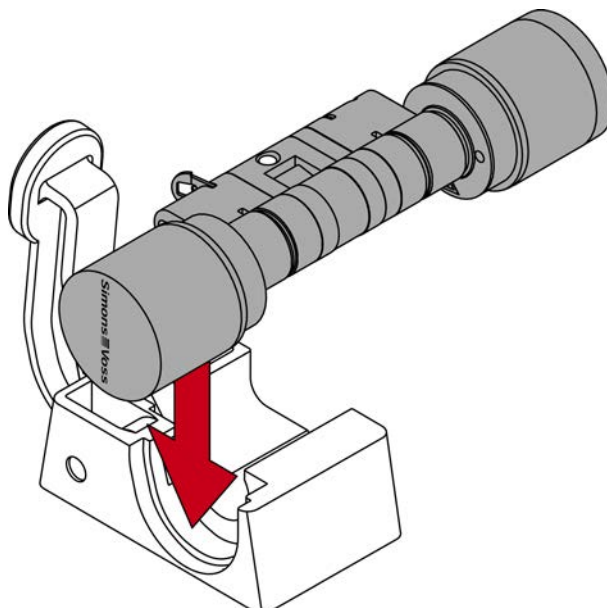
13. Push the halves together completely.



14. Refit the clip into the slot of the profile cylinder with the lug facing the fastening screw.

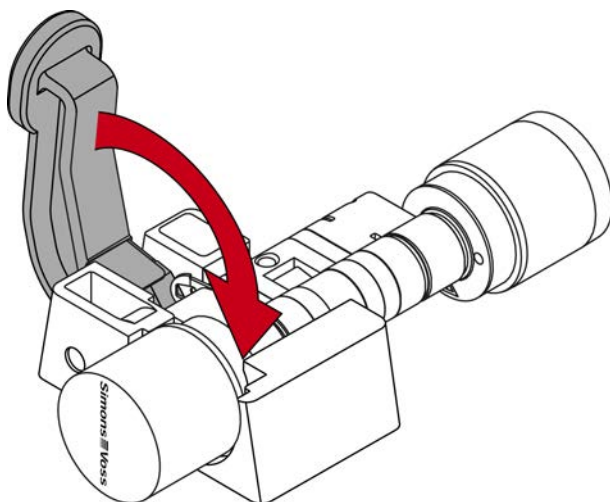


15. Insert the cylinder into the clamping block so that the profile cylinder and the thumb-turn lie flush in the recesses.

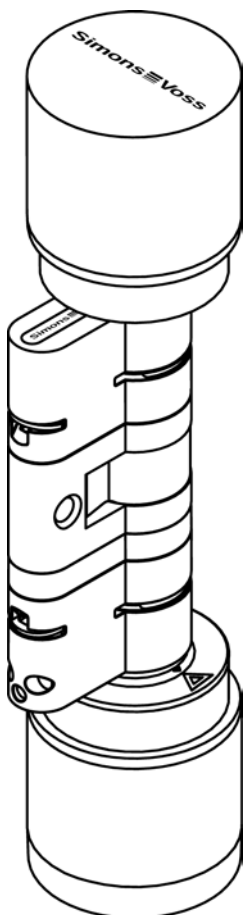


- ↳ The lever of the clamping block is reinforced at one point with a metal plate. The bracket that was previously inserted lies opposite this metal plate.

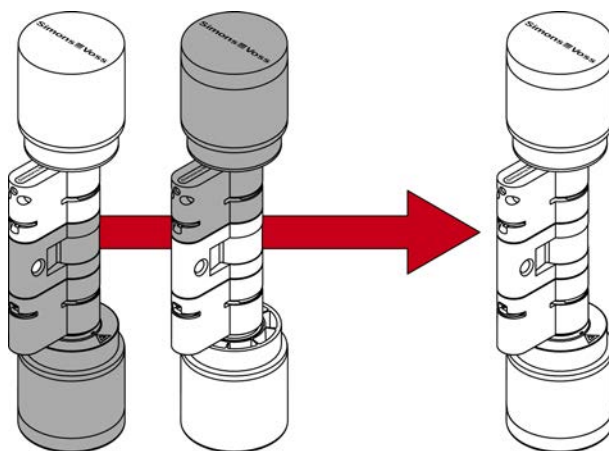
16. Push the clamp block lever towards the base plate until the clamp is fully seated in the profile cylinder.



- ↳ Cylinder AX is shortened.



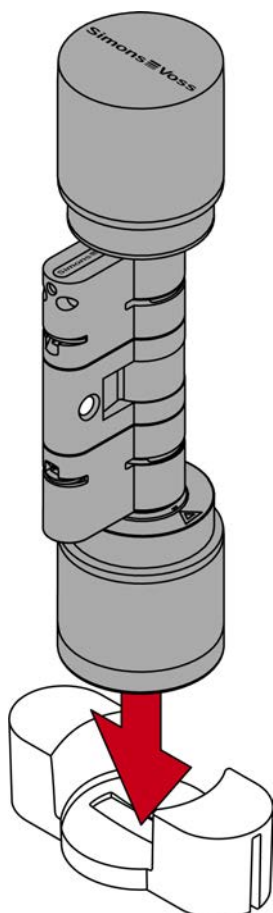
6 Combine CO cylinders to FD



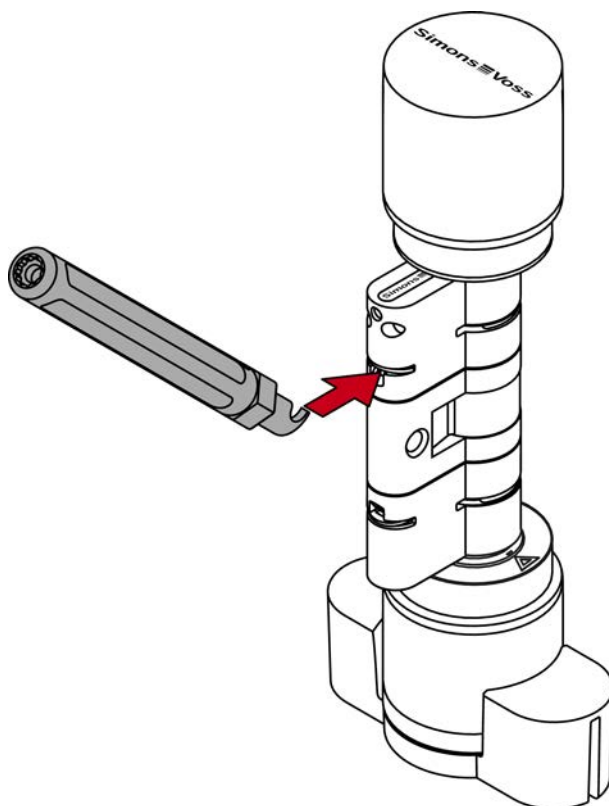
You can assemble a freely rotating AX cylinder from two AX comfort cylinders.

- ✓ Extractor for releasing the clamp
- ✓ Spacer for aligning the extension bolt
- ✓ Clamp block for pressing in the clamp

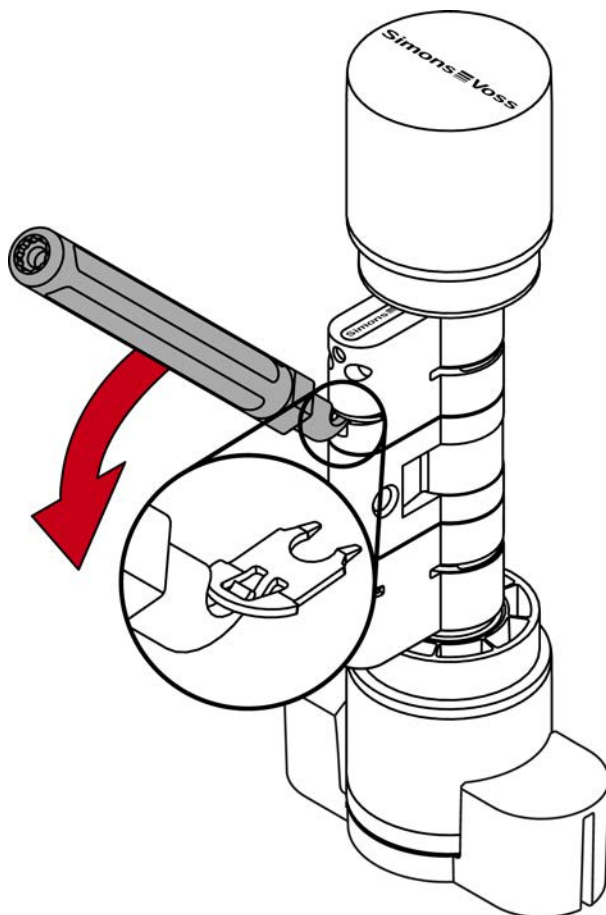
1. Place the first comfort cylinder AX in the thumb-turn assembly tool with the mechanical thumb-turn facing upwards.



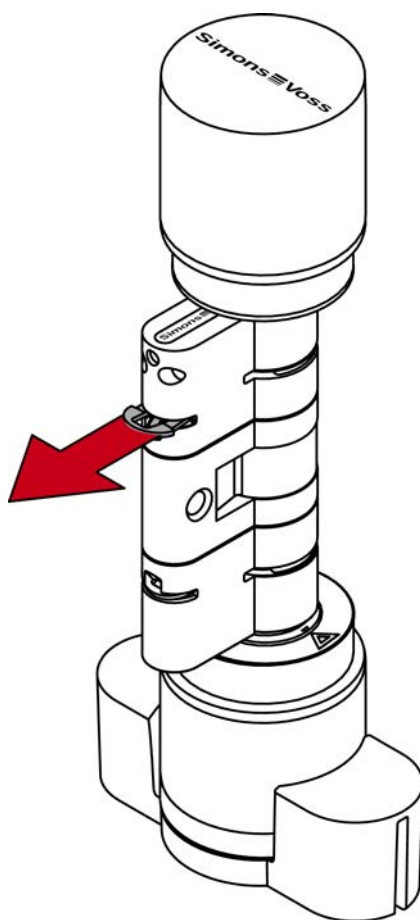
2. Hook the tip of the extractor into the clamp.



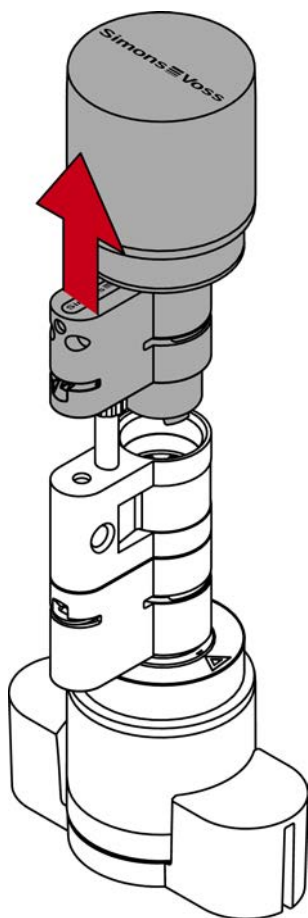
3. Lever the clamp out of the profile cylinder by moving the extractor to the centre of the cylinder.



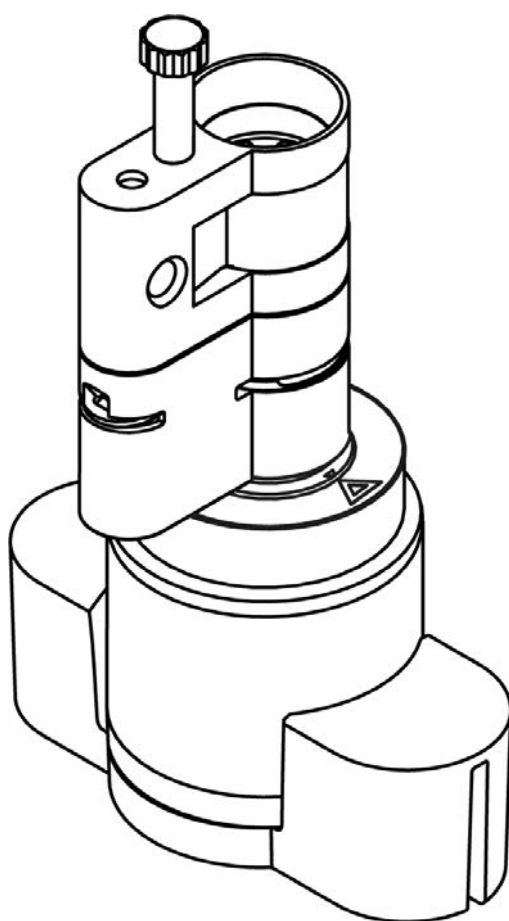
4. Pull the clamp completely out of the profile cylinder.



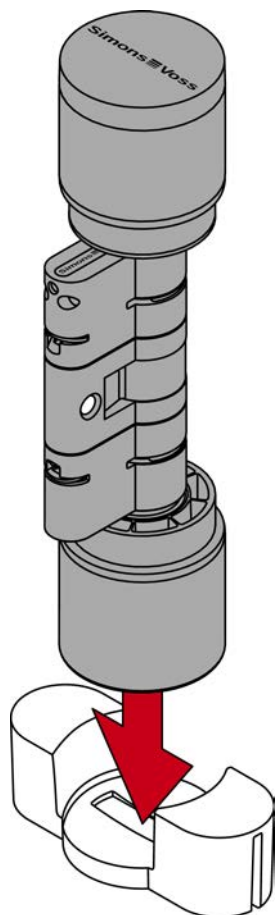
5. Disassemble the two cylinder halves.



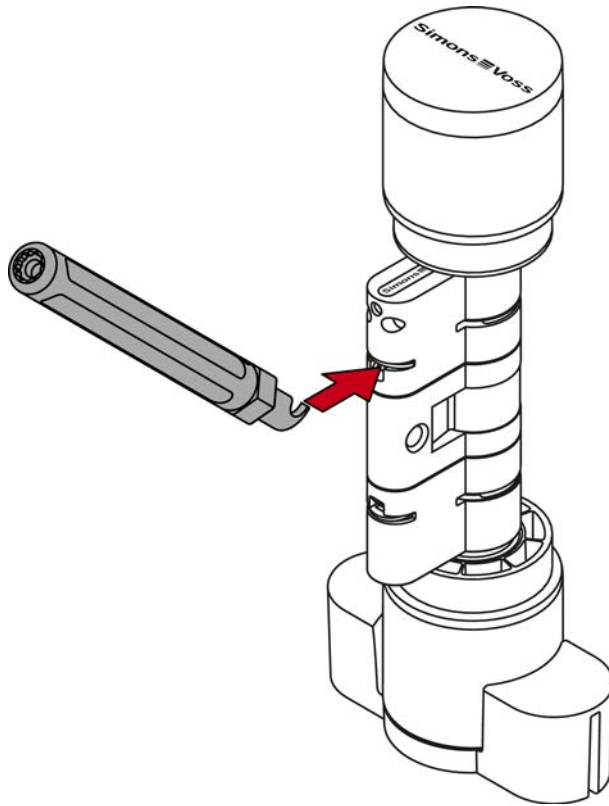
↳ First cylinder half prepared with centre piece and tappet piece.



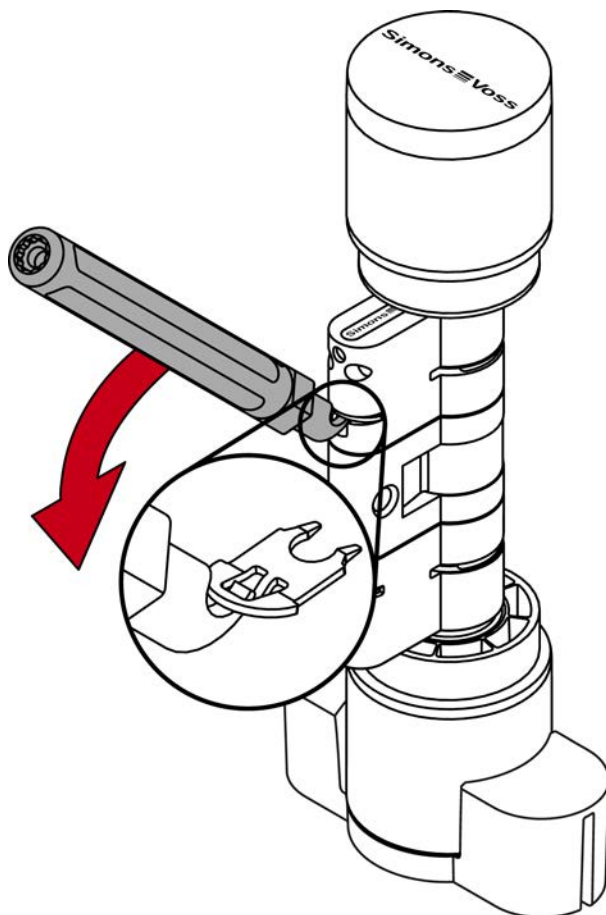
6. Place the second comfort cylinder AX in the thumb-turn assembly tool with the electronic thumb-turn facing upwards.



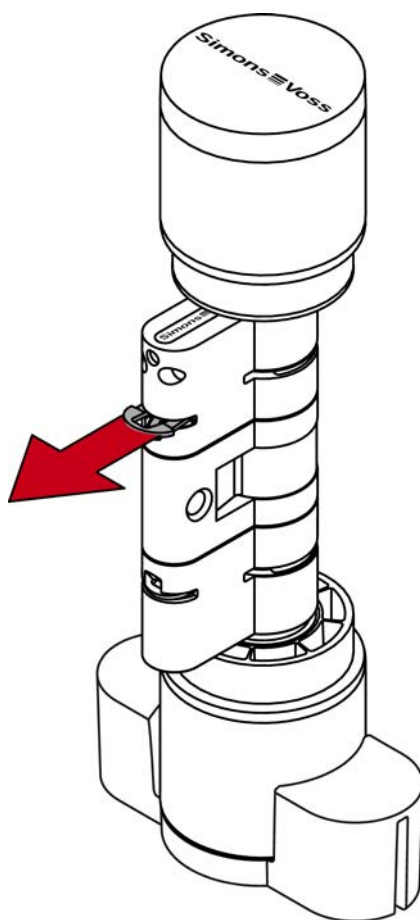
7. Hook the tip of the extractor into the clamp.



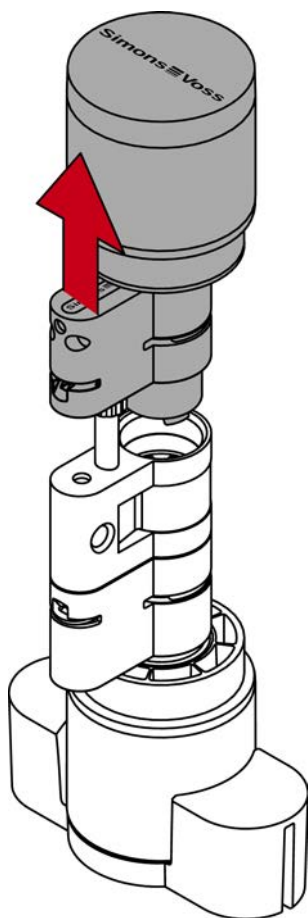
8. Lever the clamp out of the profile cylinder by moving the extractor to the centre of the cylinder.



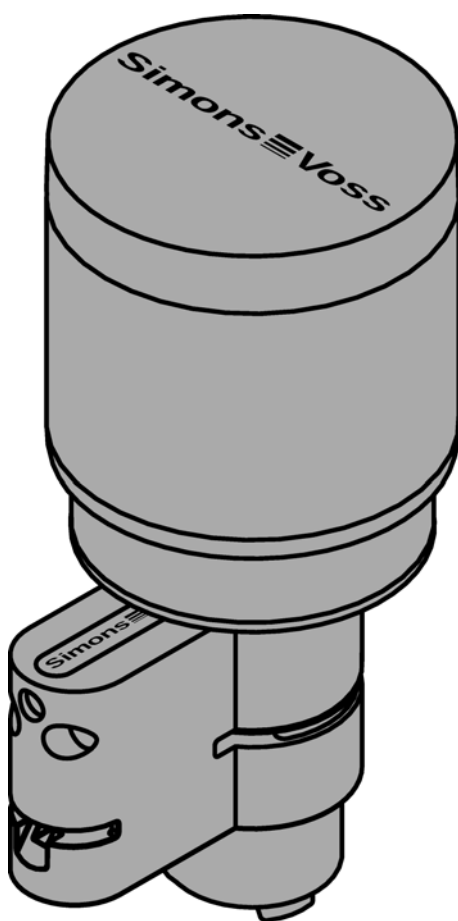
9. Pull the clamp completely out of the profile cylinder.



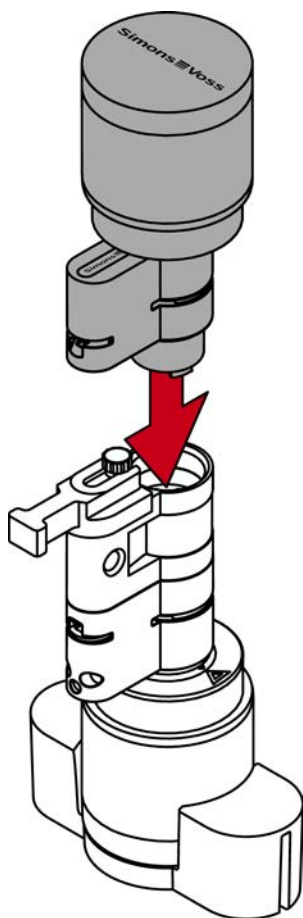
10. Disassemble the two cylinder halves.



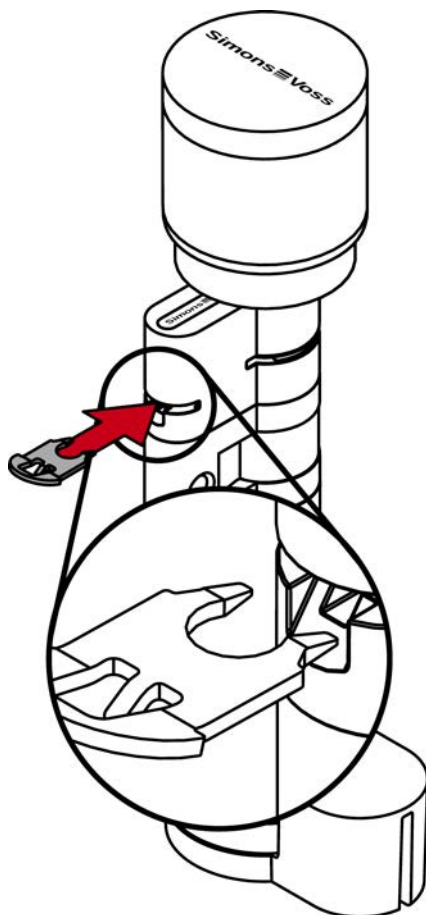
↳ Second cylinder half prepared without centre piece.



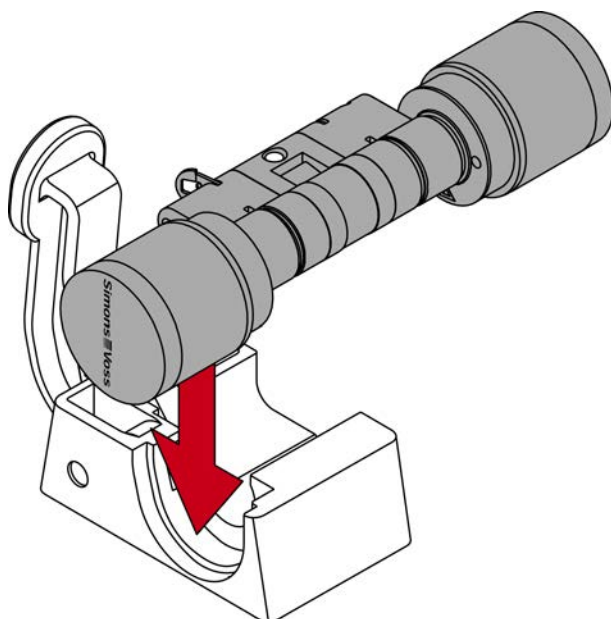
11. Place the first cylinder half on the second cylinder half.



12. Refit the clip into the slot of the profile cylinder with the lug facing the fastening screw.

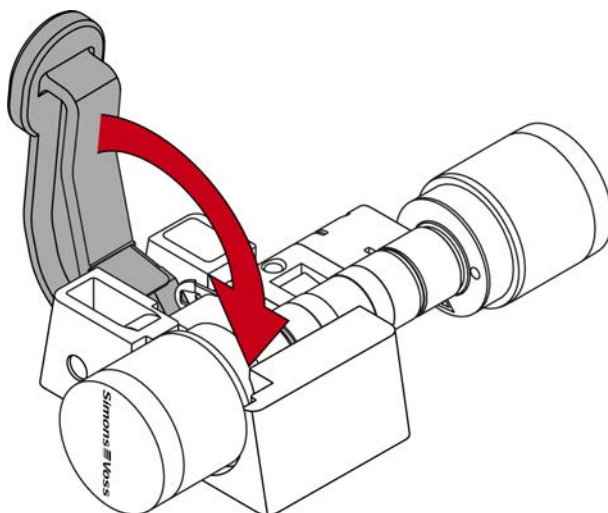


13. Insert the cylinder into the clamping block so that the profile cylinder and the thumb-turn lie flush in the recesses.

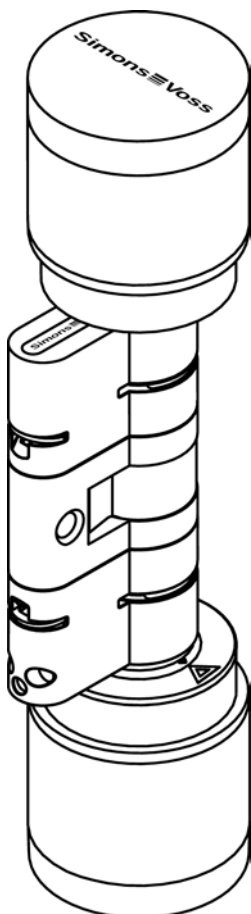


- The lever of the clamping block is reinforced at one point with a metal plate. The bracket that was previously inserted lies opposite this metal plate.

14. Push the clamp block lever towards the base plate until the clamp is fully seated in the profile cylinder.



- Freely rotating cylinder fully assembled.

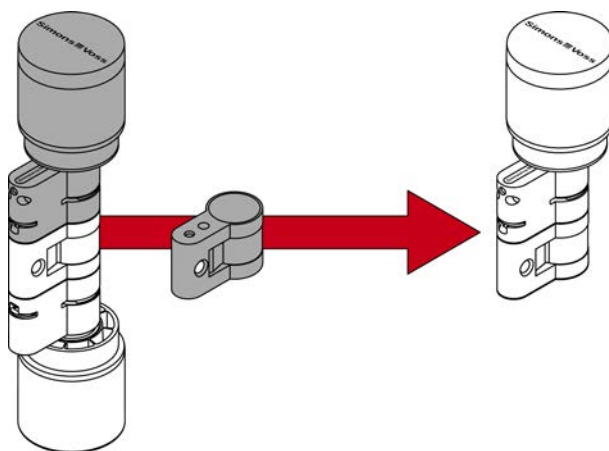


**NOTE****Freely rotating active/hybrid Digital Cylinder AX only with shortened range**

With freely rotating cylinders, the reader knobs may not have sufficient clearance at low cylinder lengths. Due to the range of the active technology, the radio signal can also be unintentionally received by the second reader knob.

1. Program freely rotating cylinders with the SmartStick AX or the SmartCD.MP.
2. Ensure that the short range is selected during programming (standard setting for cylinders factory- supplied as freely rotating).

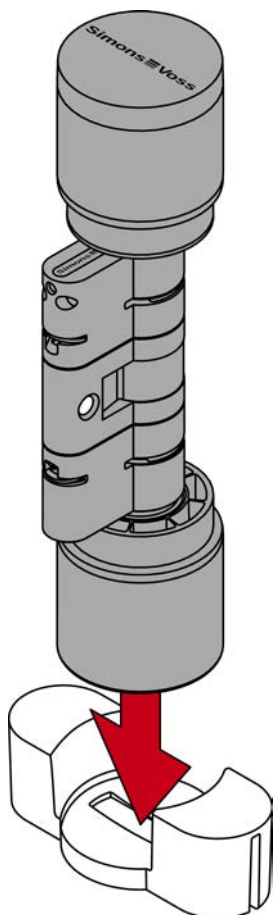
7 Reduce CO cylinders to HZ



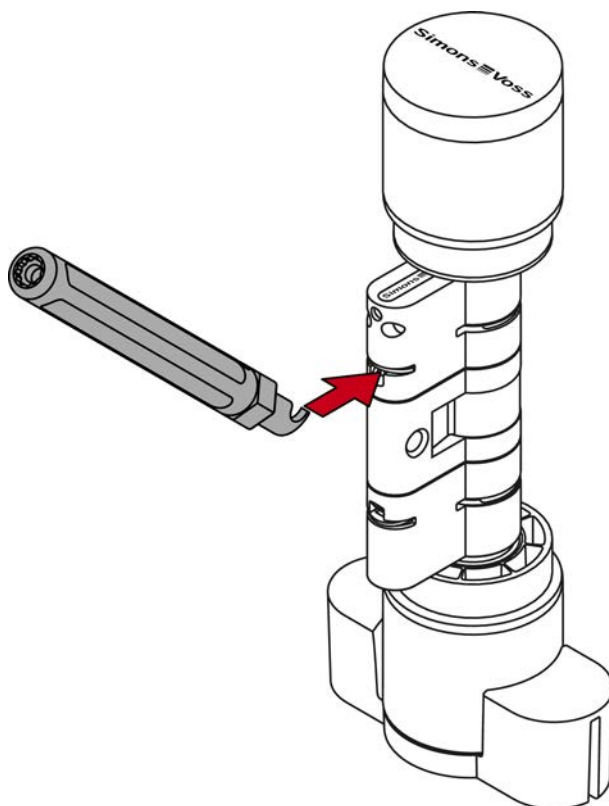
You can use a special centre piece to assemble a half cylinder from an AX comfort cylinder or a freely rotating cylinder.

- ✓ Extractor for releasing the clamp
- ✓ Spacer for aligning the extension bolt
- ✓ Clamp block for pressing in the clamp
- ✓ Half Cylinder Center Section

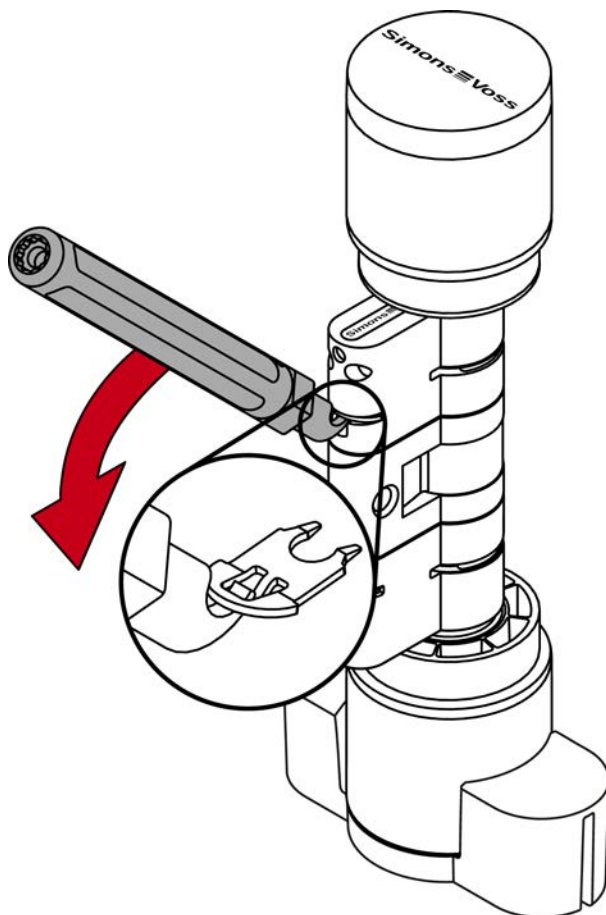
1. Place the Cylinder AX in the thumb-turn assembly tool with the electronic thumb-turn facing upwards.



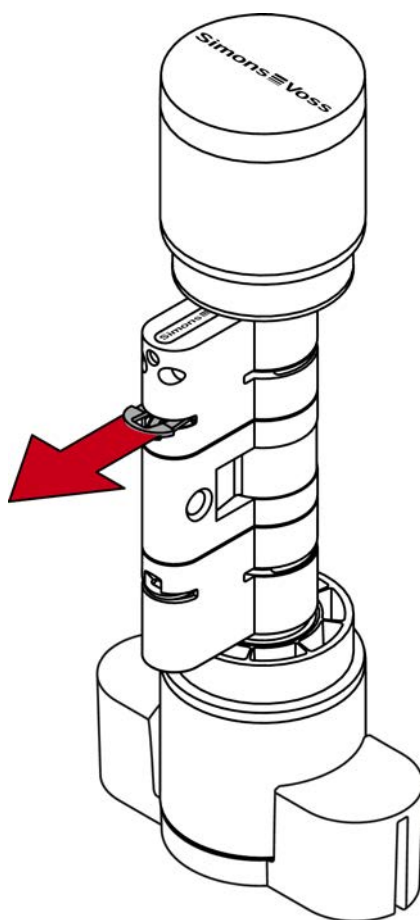
2. Hook the tip of the extractor into the clamp.



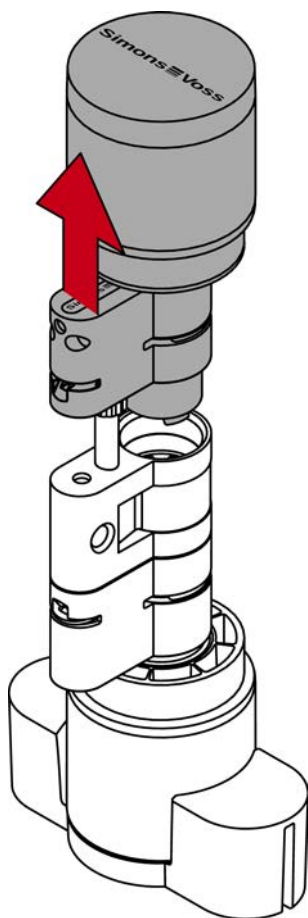
3. Lever the clamp out of the profile cylinder by moving the extractor to the centre of the cylinder.



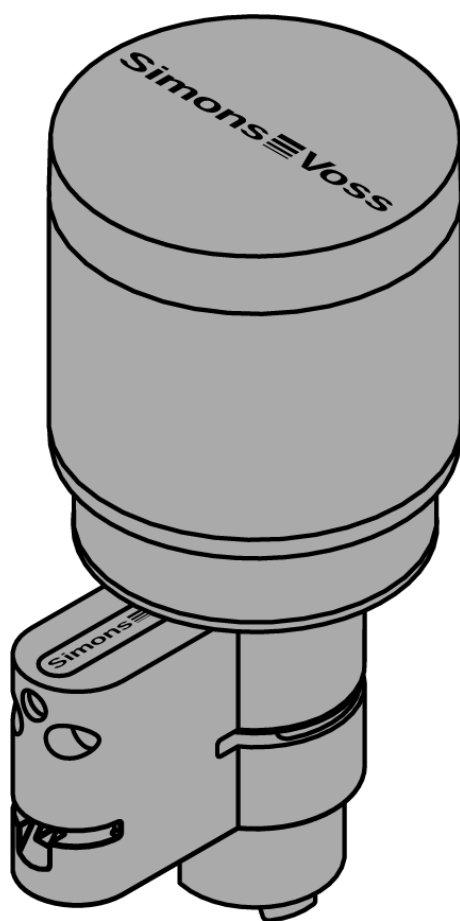
4. Pull the clamp completely out of the profile cylinder.



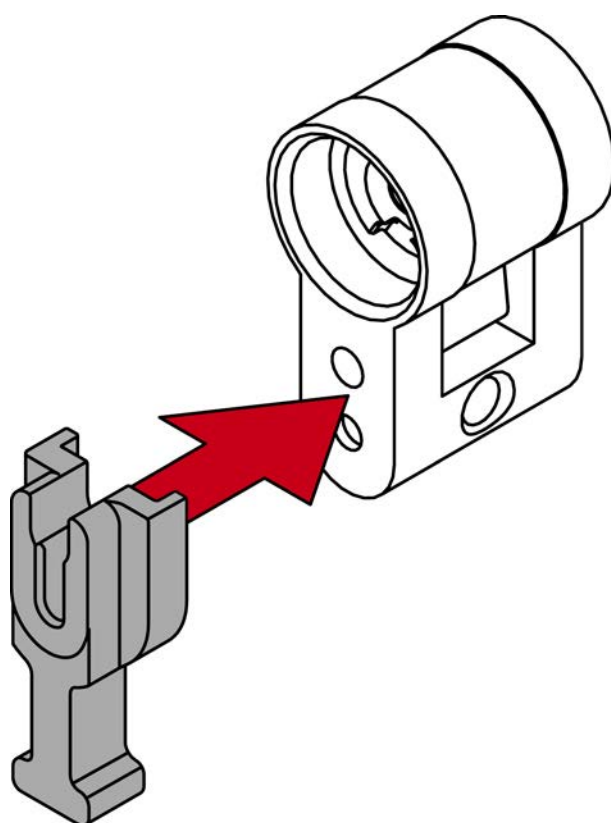
5. Disassemble the two cylinder halves.



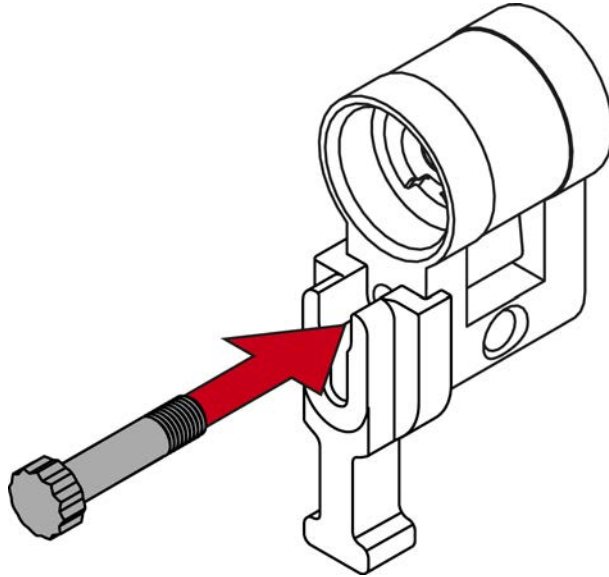
↳ First cylinder half prepared without centre piece.



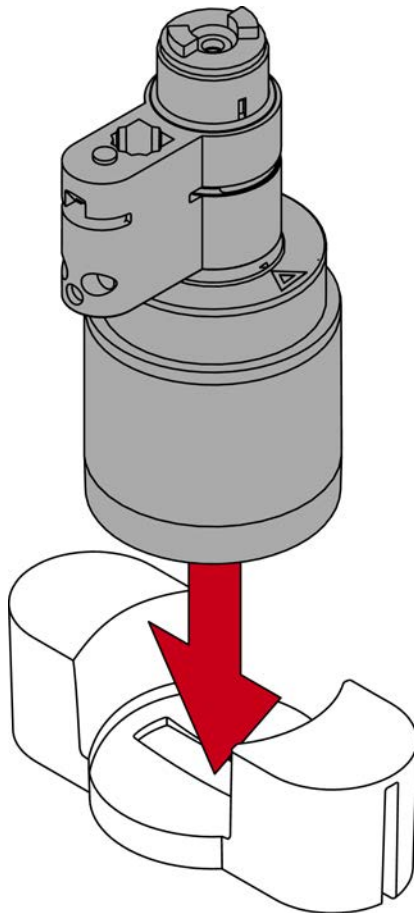
6. Place the spacer on the half-cylinder centre piece.



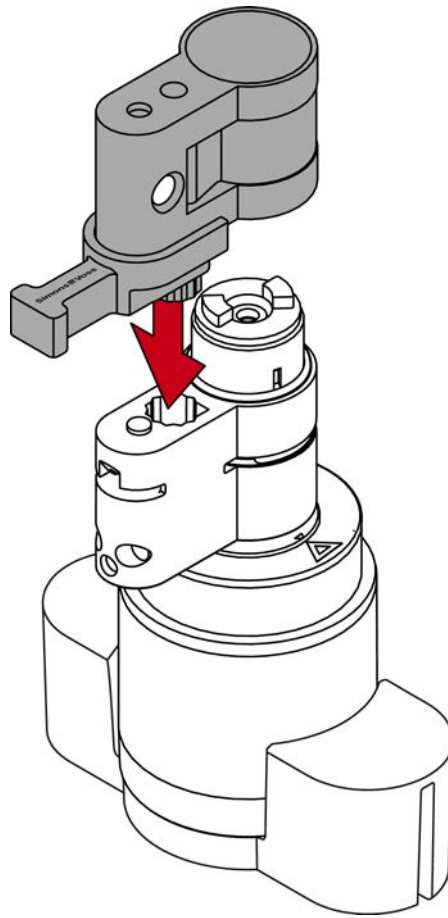
7. Screw in a suitable extension bolt with the extractor until it rests on the spacer.



8. Place the prepared cylinder half in the thumb-turn assembly tool.

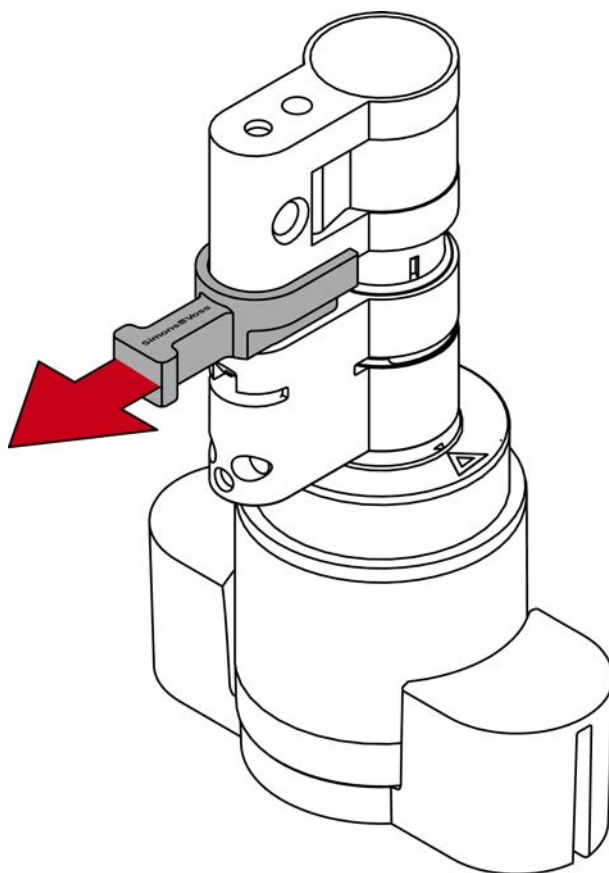


9. Place the half cylinder centre piece on the prepared cylinder half.

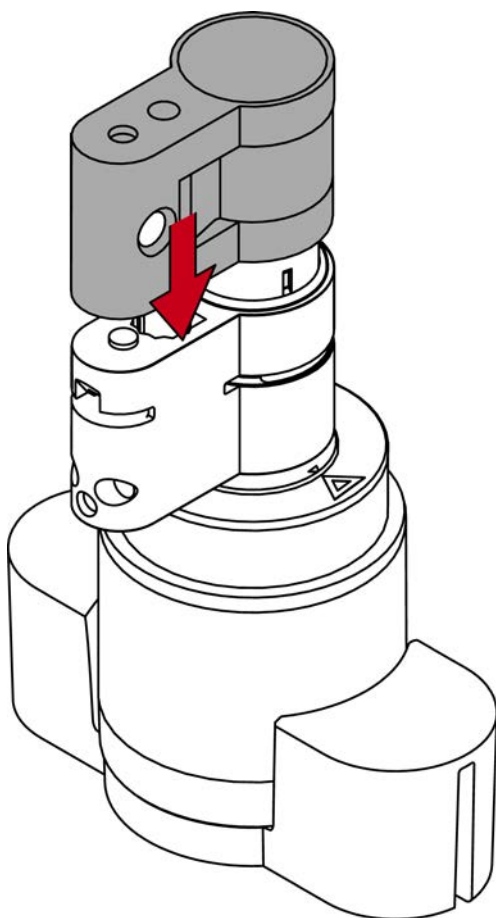


↳ Extension bolt is protected against twisting.

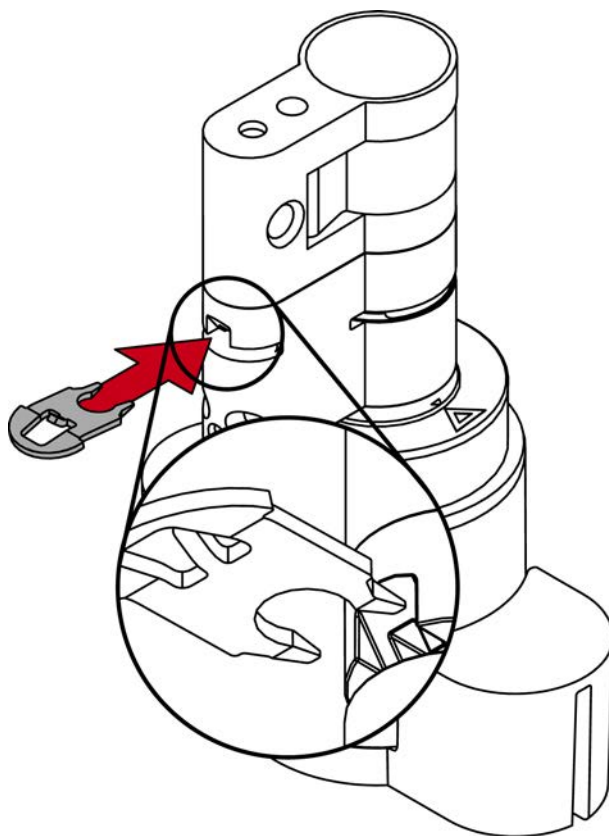
10. Pull the spacer off again.



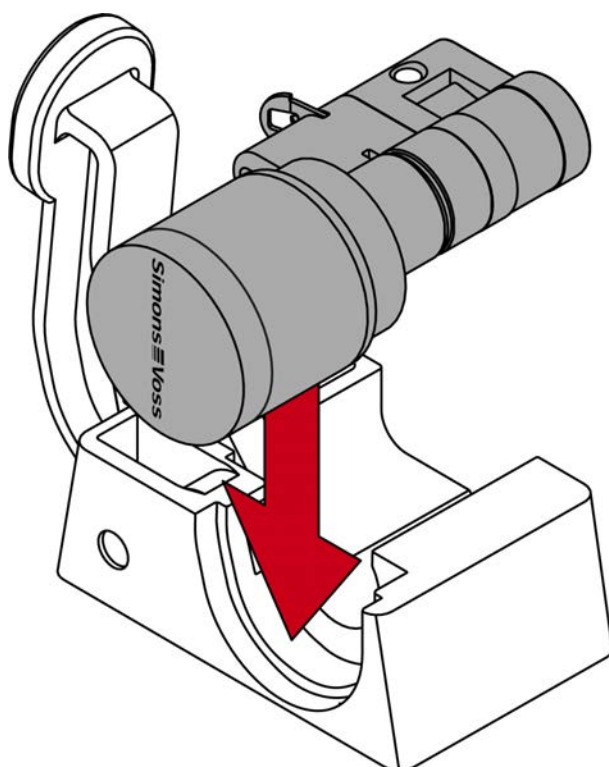
11. Push the cylinder parts together completely.



12. Refit the clip into the slot of the profile cylinder with the lug facing the fastening screw.

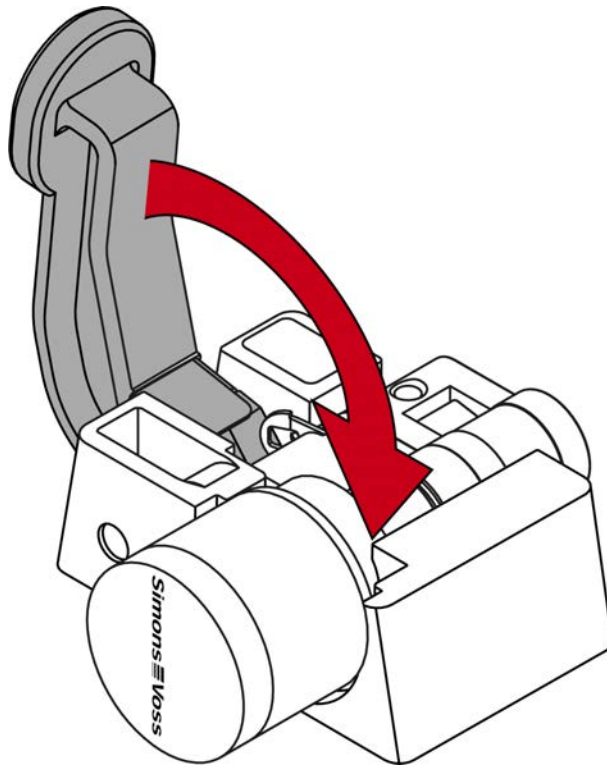


13. Insert the cylinder into the clamping block so that the profile cylinder and the thumb-turn lie flush in the recesses.

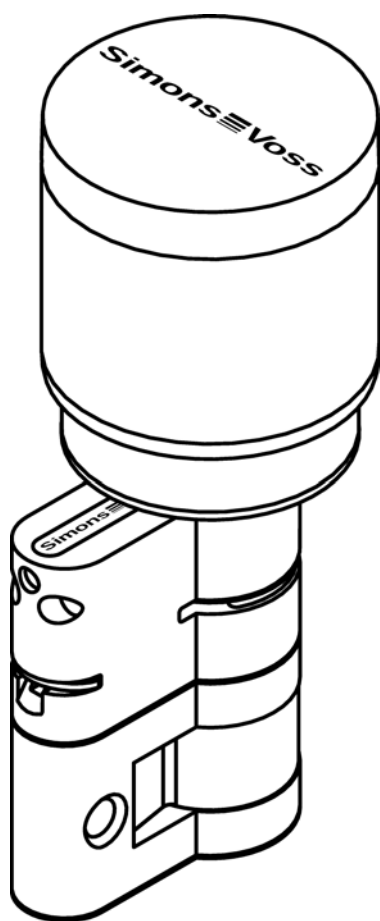


- The lever of the clamping block is reinforced at one point with a metal plate. The bracket that was previously inserted lies opposite this metal plate.

14. Push the clamp block lever towards the base plate until the clamp is fully seated in the profile cylinder.



- Half cylinder AX is fully assembled.



8 Help and other information

Information material/documents

You will find detailed information on operation and configuration and other documents on the website:

<https://www.simons-voss.com/en/documents.html>

Declarations of conformity

You will find declarations of conformity and other certificates on the website:

<https://www.simons-voss.com/en/certificates.html>

Technical support

Our technical support will be happy to help you (landline, costs depend on provider):

+49 (0) 89 / 99 228 333

Email

You may prefer to send us an email.

support-simonsvoss@allegion.com

FAQs

You will find information and help in the FAQ section:

<https://faq.simons-voss.com/otrs/public.pl>

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This is SimonsVoss

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As an innovative system provider, SimonsVoss focuses on scalable systems, high security, reliable components, powerful software and simple operation. As such, SimonsVoss is regarded as a technology leader in digital locking systems.

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