

XrayCurtains.com

REPLACING SMITHS HI-SCAN
5030SI X-RAY CURTAINS



TUTORIAL

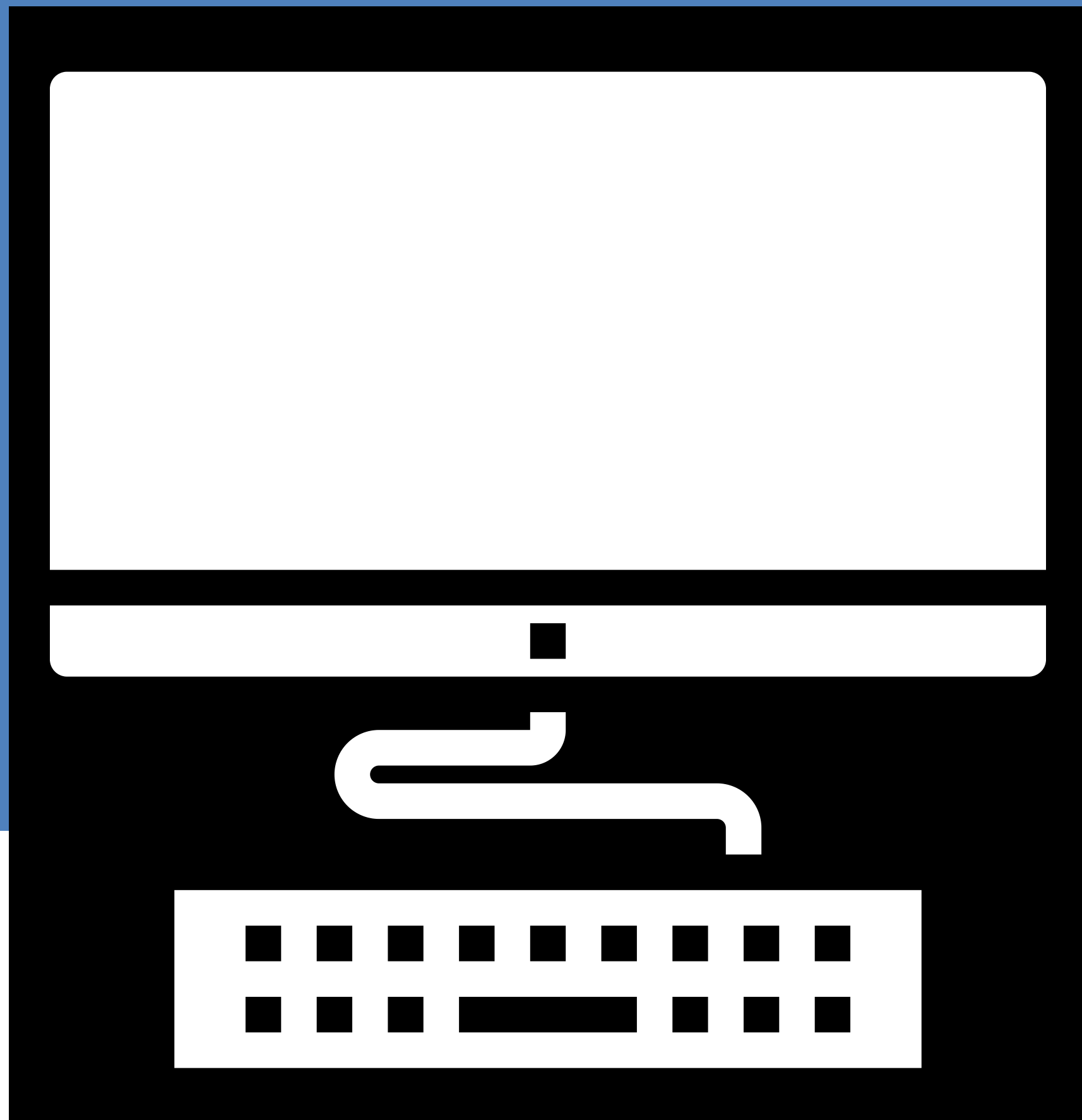
REPLACING X-RAY CURTAINS

The Smiths Hi-Scan 5030SE security scanner is a commonly used product. X-ray curtains on these need to be replaced regularly to ensure the safety of surrounding people. These instructions will help you easily replace the x-ray curtains using replacement curtains from XrayCurtains.com.

While this demonstration is for Hi-Scan 5030 SE, the general process will be similar for other x-ray security scanners.



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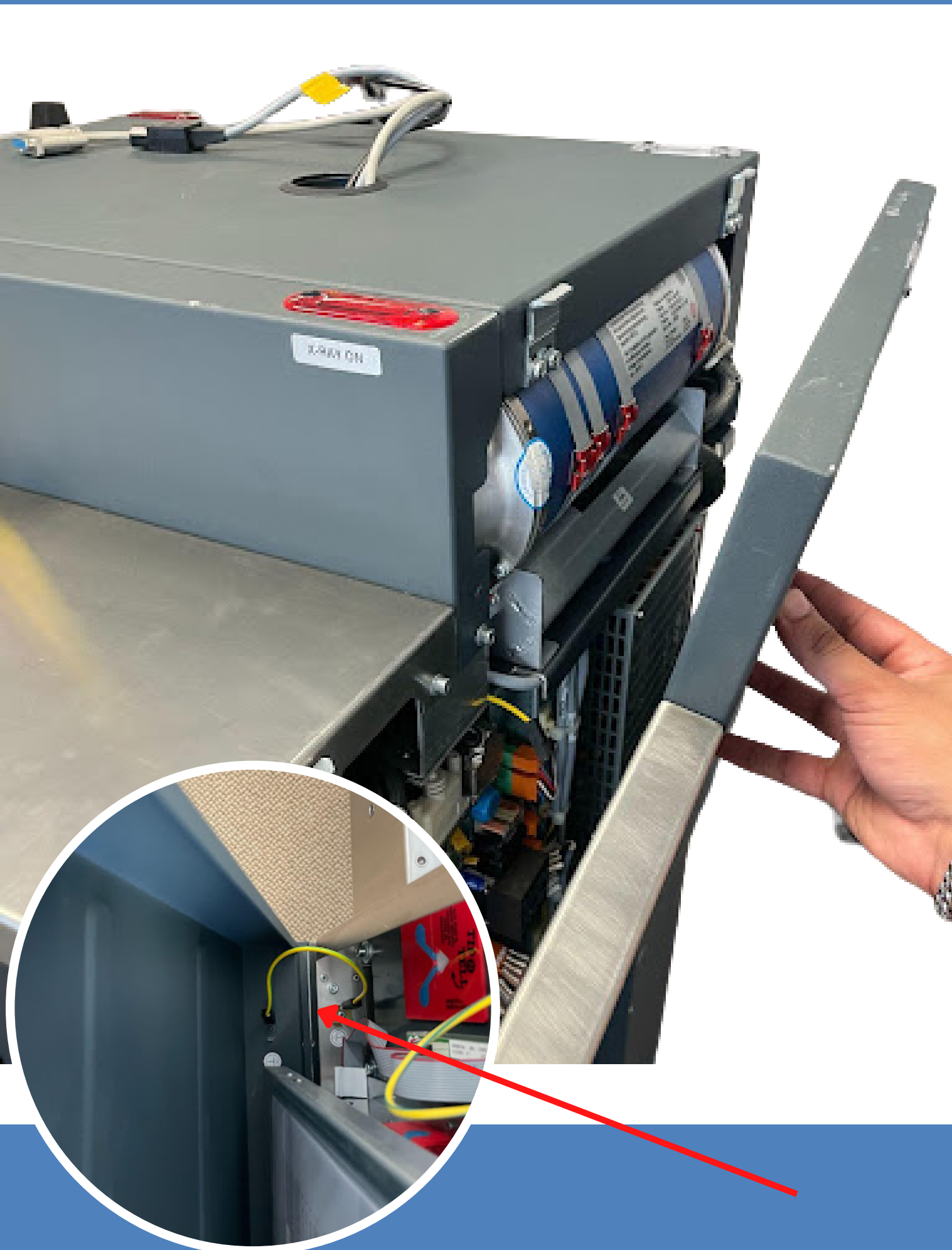
1.

Before beginning the disassembly process, ensure that the machine is disconnected from power and has been left unpowered for at least one hour. Then, unplug the monitor and keyboard.



2.

With all external components disconnected, locate the two screws holding the left side panel in place and, using a 3mm hex key or bit, remove and set them aside.



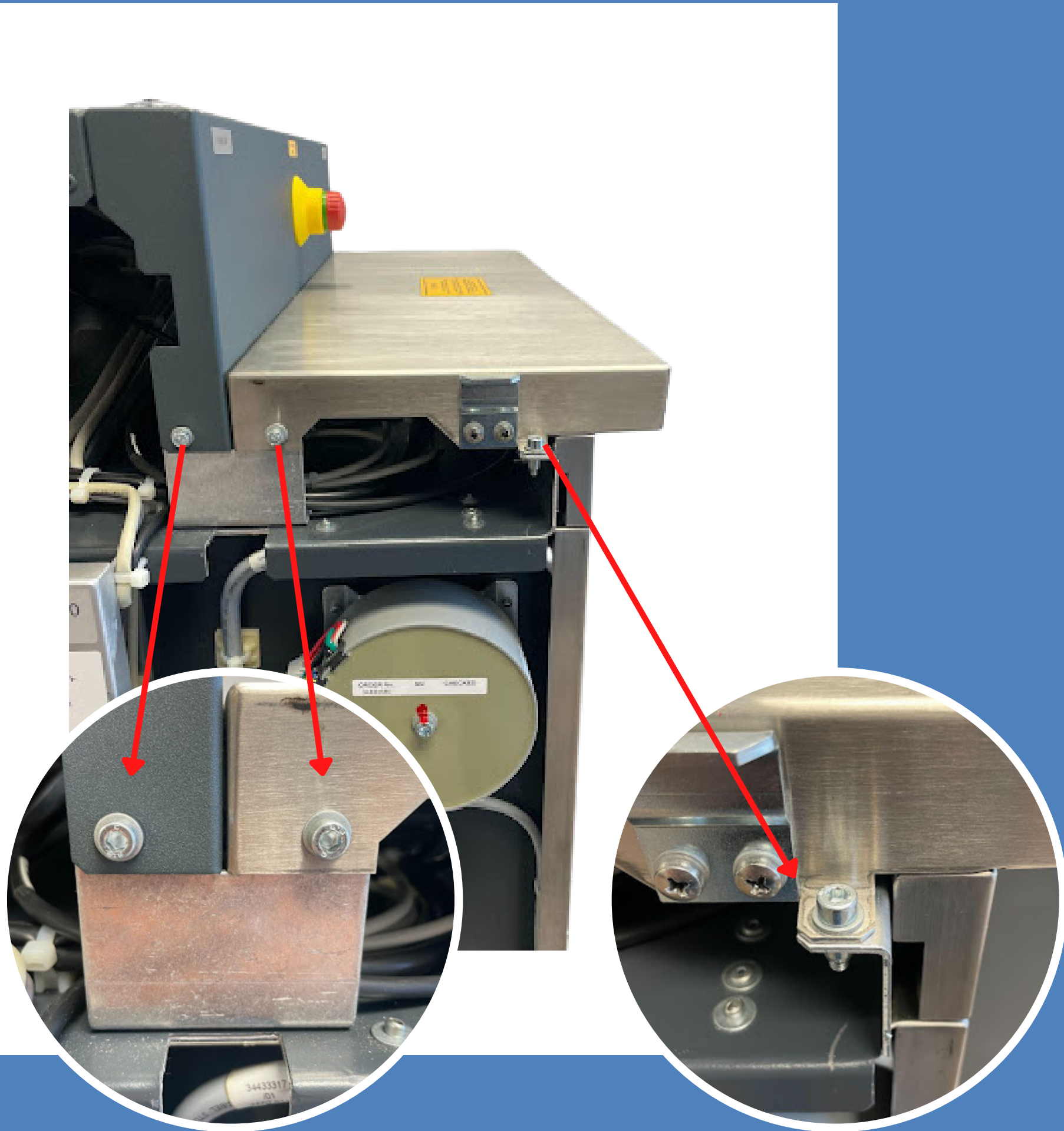
3.

Lift the panel up and out to access the two yellow ground wires attached. Unplug both wires, remove the left side panel, and set aside.

Repeat the same steps on the opposite side to remove the right side panel.

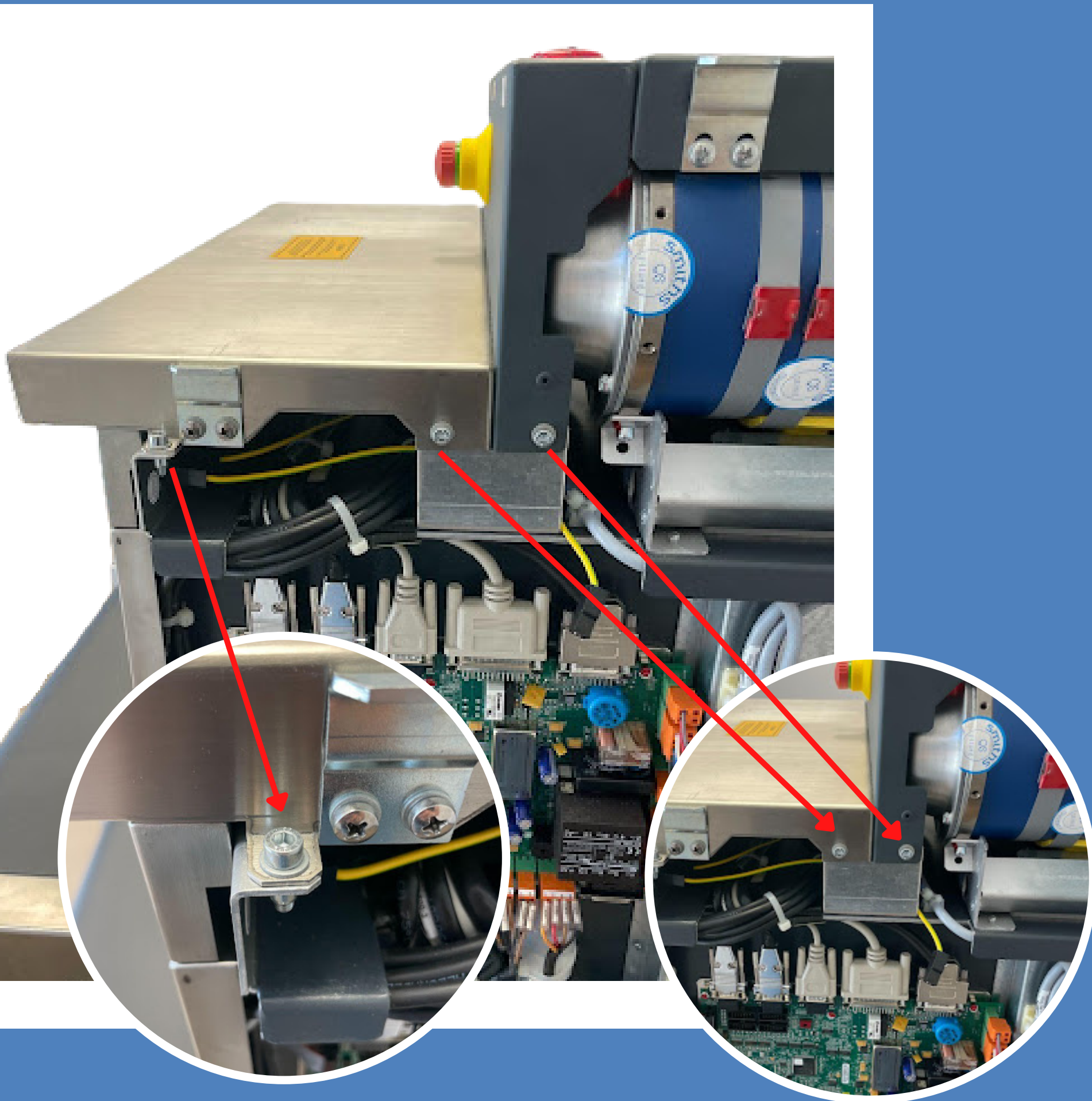


With both side panels removed, you can move on to removing the front curtain cover.



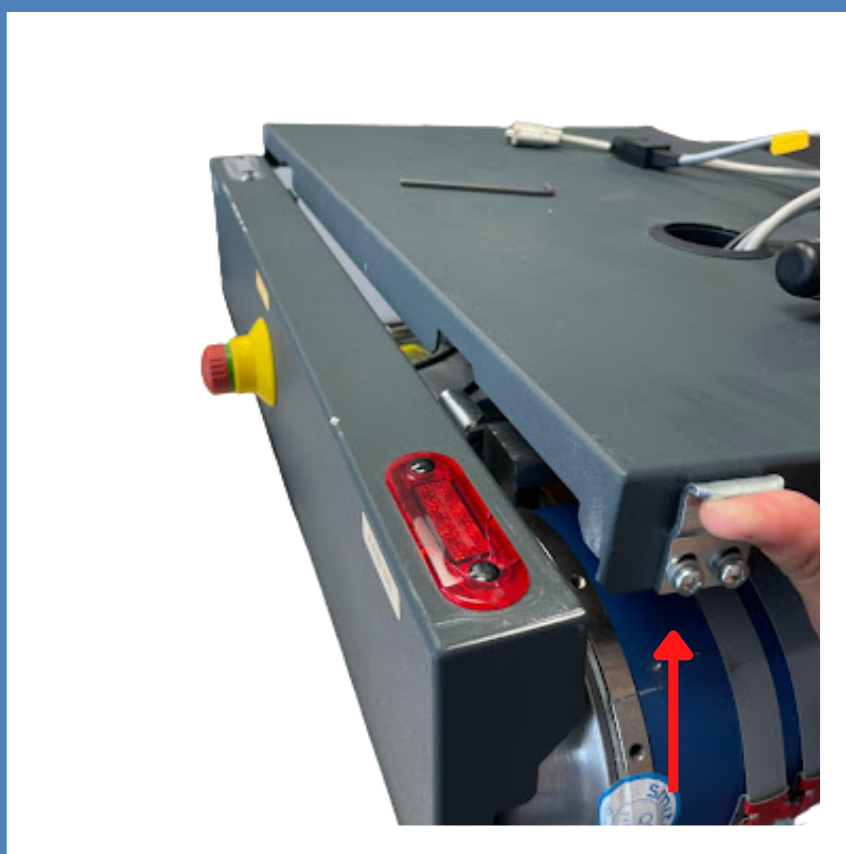
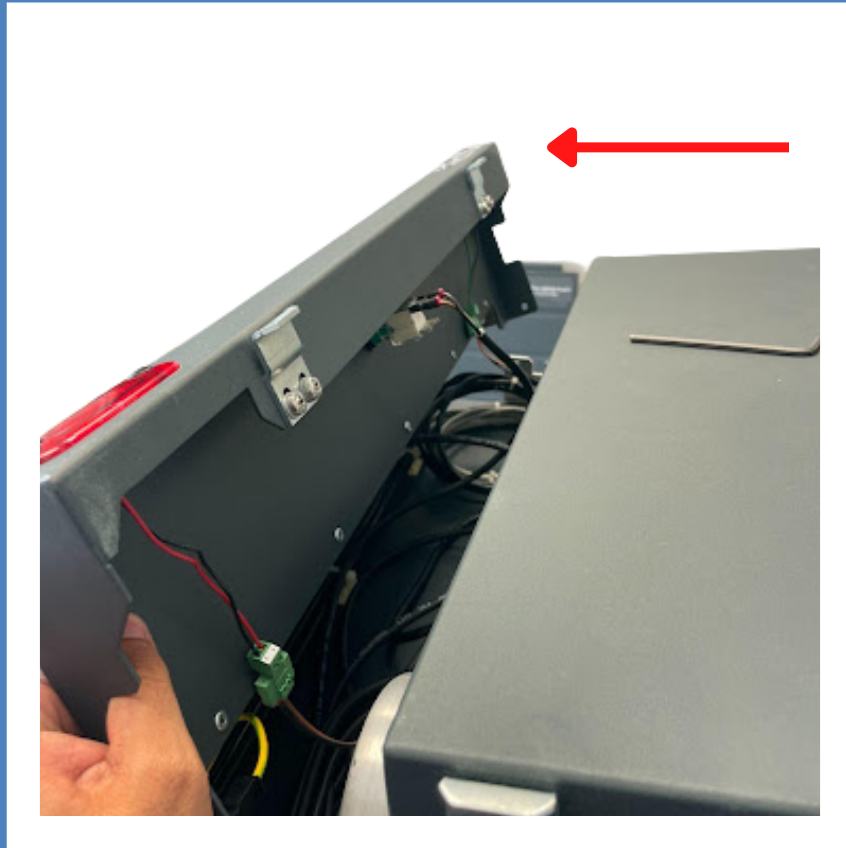
4.

Locate the three hex screws on the left hand side holding down the front cover and remove them with a 4mm hex key or bit.



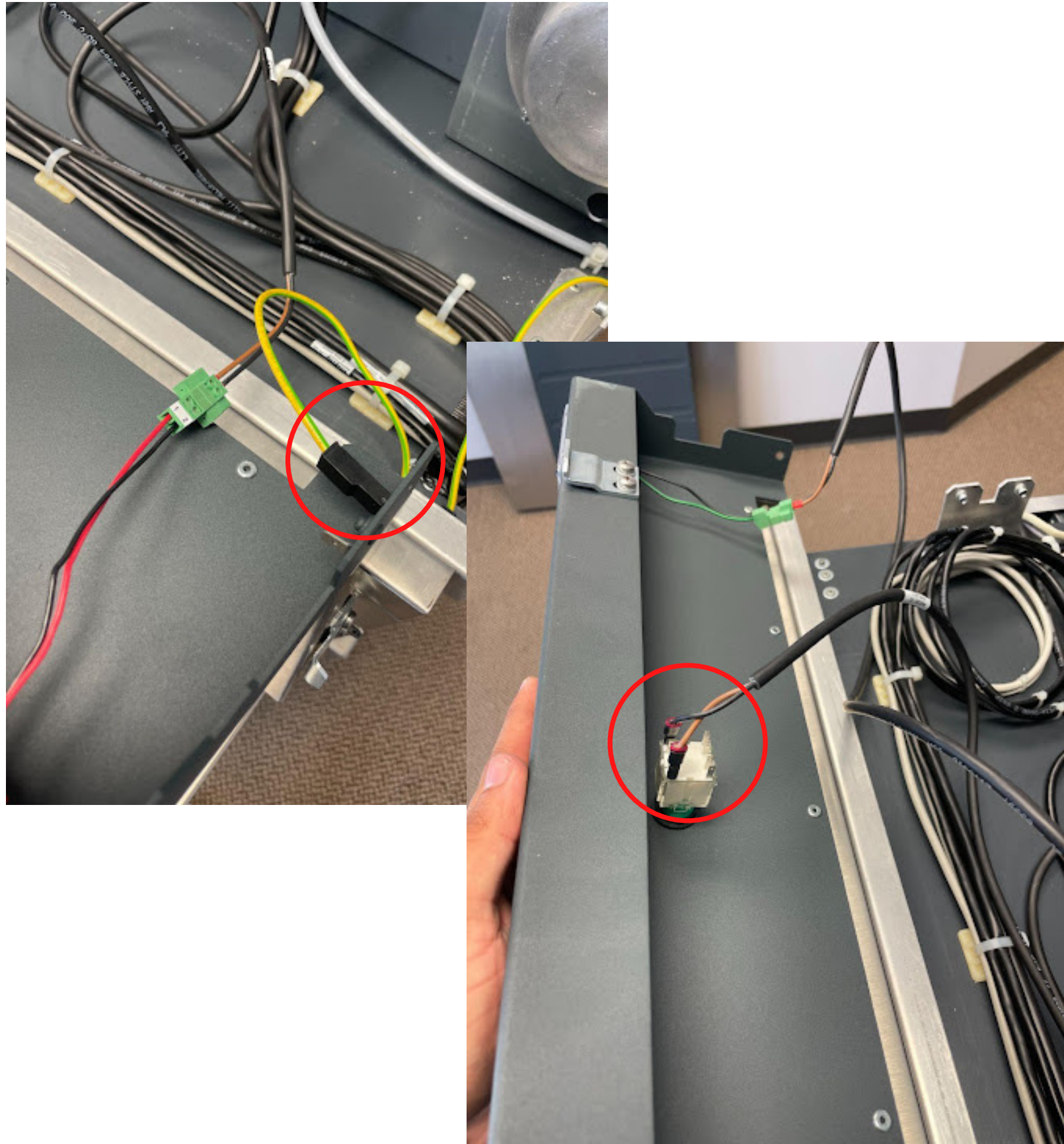
5.

Repeat the same steps on the opposite side. Now the only thing holding the front curtain cover in place should be the top panel.



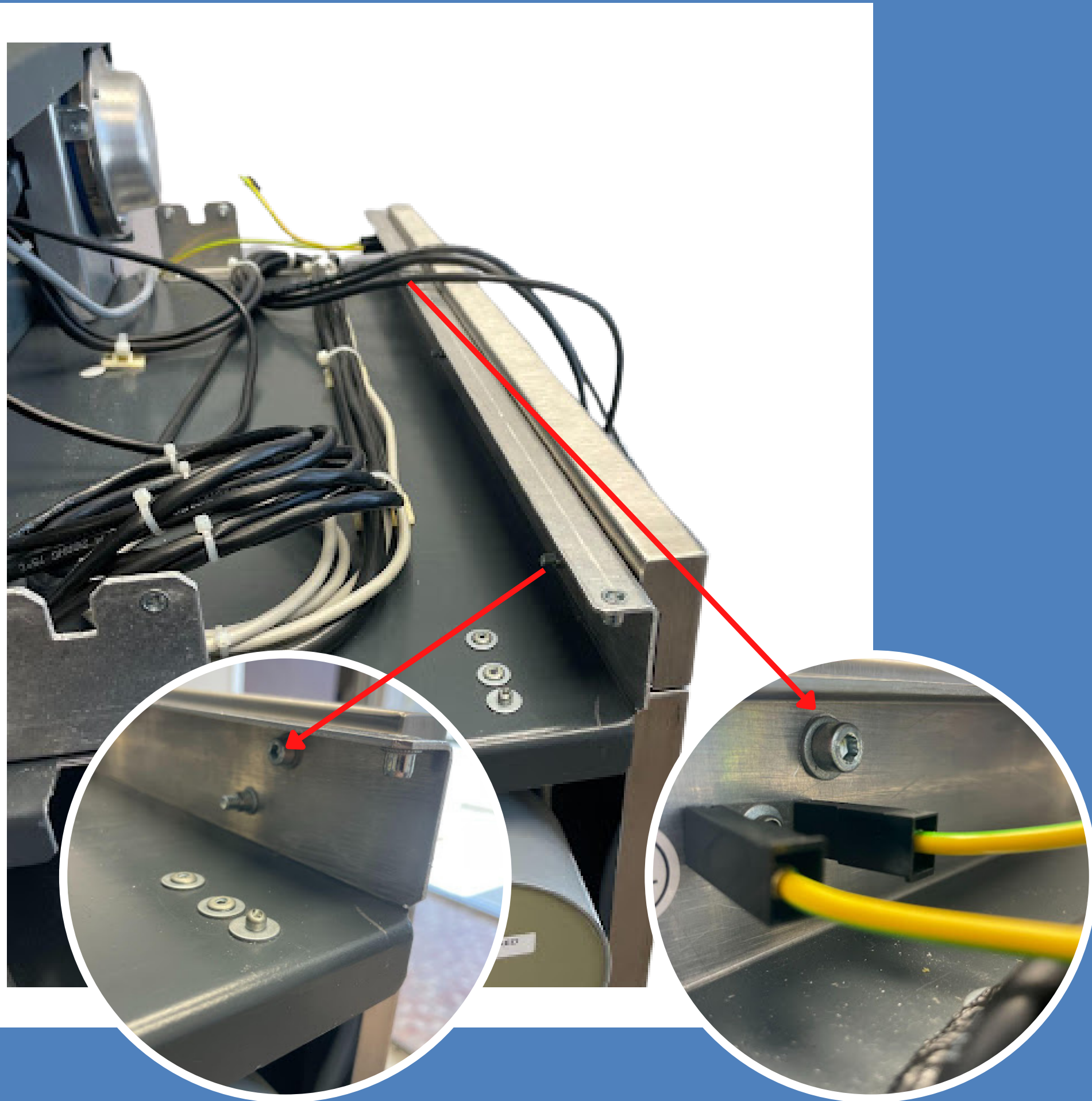
6.

To remove the front cover, lift the top panel and tilt the front cover forward.



7.

To allow more room, unplug the ground wire and the emergency stop button cable that are attached to the front cover. Place the cover down onto the conveyor below, keeping the two remaining wires attached.



8.

To remove the final part of the front curtain cover, locate the two adjacent hex screws holding the cover in place and remove with a 4mm hex key or bit.



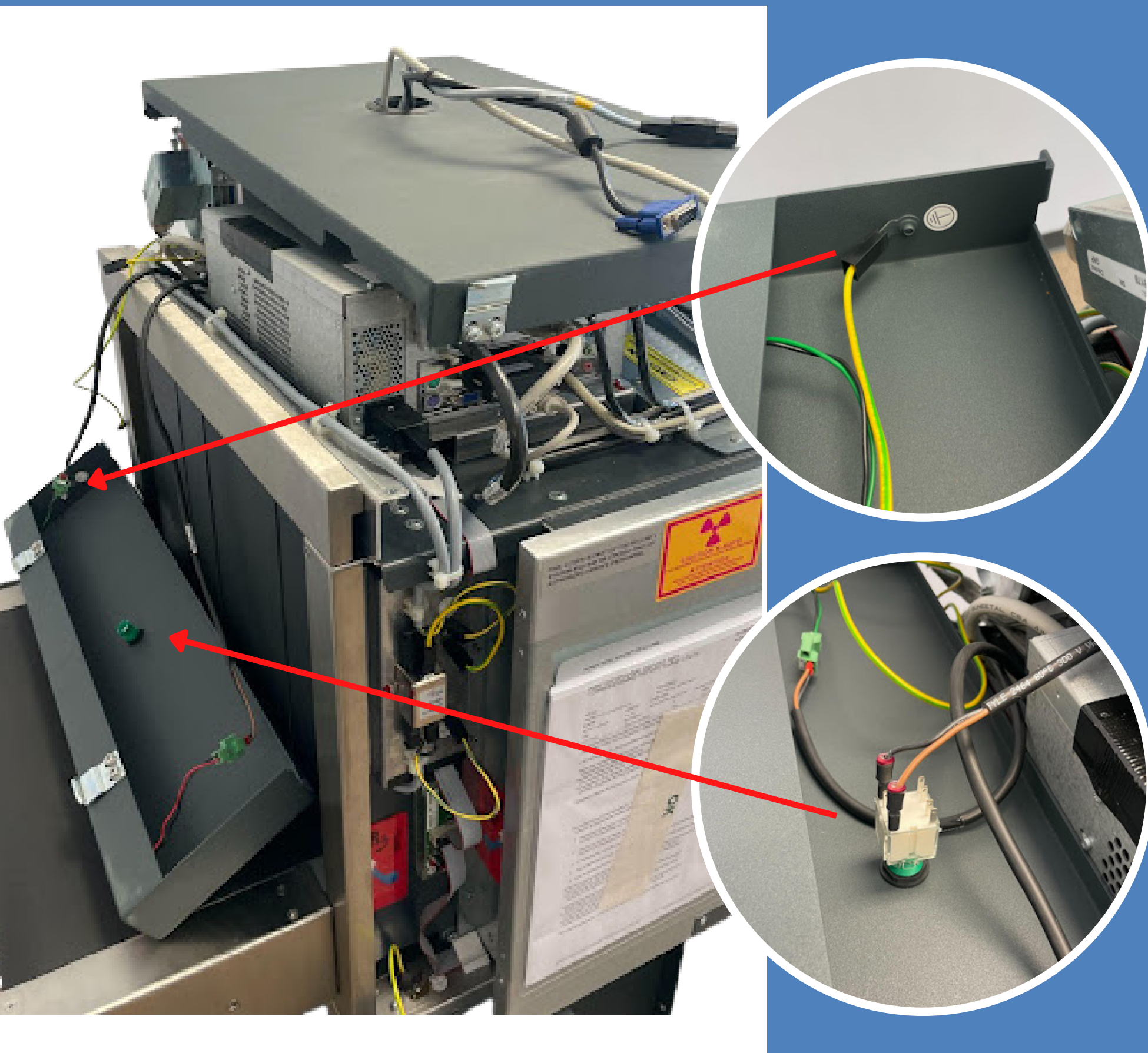
9.

The final piece of the front curtain cover can now be removed, and the front curtains can be accessed.



10.

To remove the rear curtain cover, locate the two hex screws that hold the cover in place, and remove them with a 4mm hex key or bit. If the top panel is still attached, separate the two in the same manner as shown with the front curtain cover.



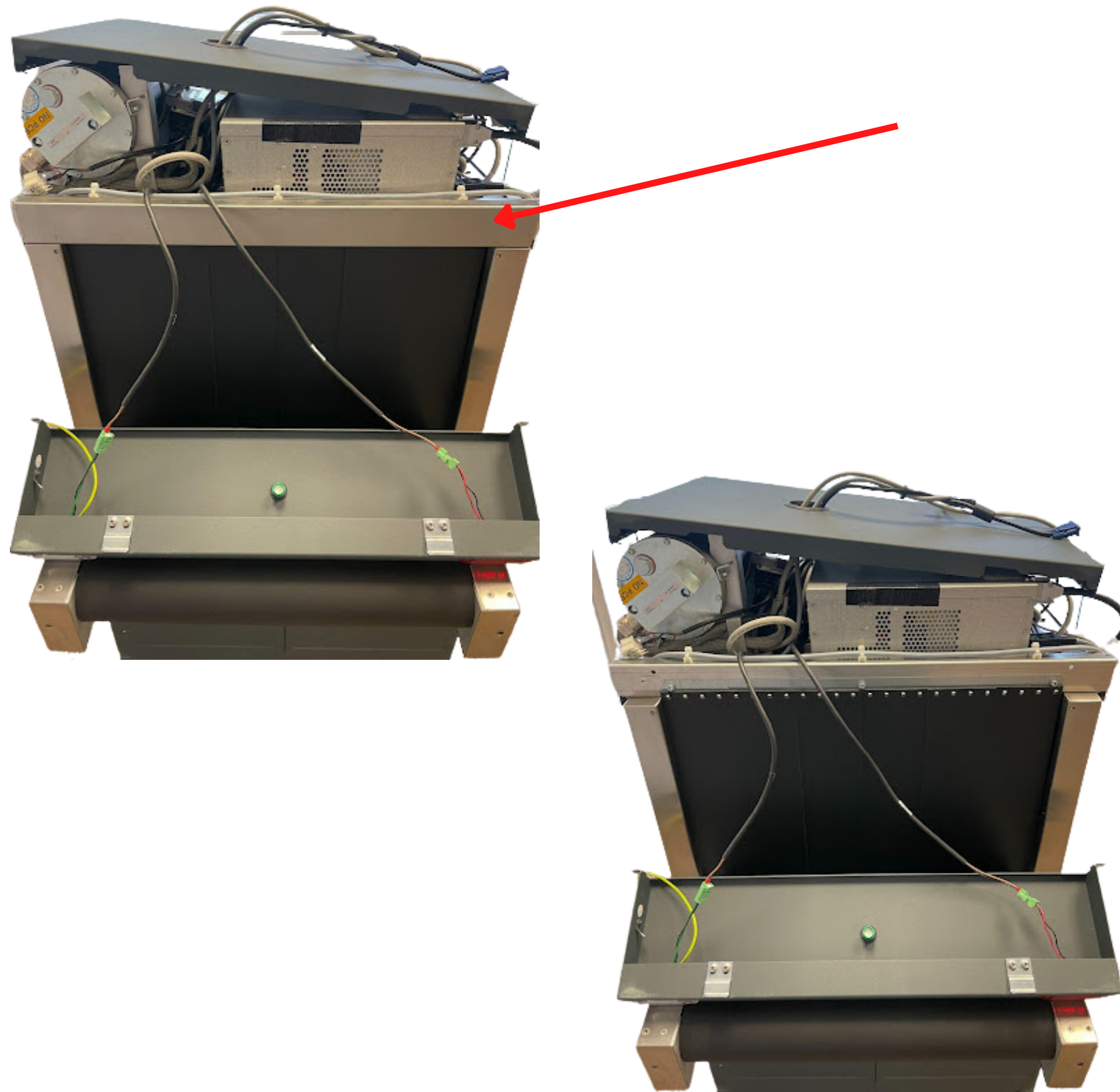
11.

Unplug the rear emergency stop button cable and the ground wire. Lay the cover down against the machine so as to not put a lot of tension in the two wires that remain attached.



12.

Similar to the front curtain cover, the final part is held in place by two adjacent hex screws. However, these are more difficult to remove than the previous ones due to the lack of room to work with. It helps to remove the cables that are in the way when removing the left side screw, just remember to plug everything back in afterwards, and you can use a small ratchet wrench with a 4mm hex bit to remove the right side screw.



13.

With both screws removed the final part of the rear curtain cover can be removed and the curtains can be accessed.



14.

Remove the old x-ray curtains.

Any x-ray curtains containing lead should be disposed of in a safe manner per local environmental regulations.



15.

Install the new strips.

Xyflex x-ray curtains from XrayCurtains.com are a lead-free and durable radiation shielding material. These curtains are safe and effective and can be used on Smiths security scanners.

Xyflex®

Lead-Free X-Ray Curtains

Lead-free Flexible Elastomeric Sheet for Radiation Protection on X-ray Scanners

Xyflex® was launched in 2021 as the newest lead-free shielding material from Intech & XrayCurtains.com. Xyflex® has been specifically developed for X-ray Scanners based on 20 years of experience developing materials and servicing OEMs in the industry.

The Xyflex® product range include 4 lead-free material formulations which each are specified to serve a different range of industry needs based on scanner operating energy range and radiation scatter profiles.

Product SKU	Protection mm PbEq	Weight kg / m ²	UTS		Thickness mm
			N / 50 mm	Skin	
XRC437-RBK280	0.28	3.7	600	TPC-ET	1.1
XRC437-RBK400-D	0.28	4.0	1200	TPC-ET Duplex	1.4
XRC435-RBK430	0.35	4.3	600	TPC-ET	1.5
XRC435-RBK640	0.50	6.4	600	TPC-ET	2.0
XRC434-RBK660-D	0.5 (min)	6.6	1,080	TPC-ET Duplex	1.8
XRC434-RBK780	0.6 (min)	7.8	675	TPC-ET	2.0
XRC432-RBK001-D	1.0 (min)	10.6	1,600	TPC-ET Duplex	2.4

Xyflex® Product Families

- XRC 437** Thin, lightweight material with a minimum 0.25mm PbEq preferred by the Food and MailScan sectors. The formulation provides a broad-spectrum scatter radiation shielding for tube energies ranging from 80 to 160 kVp.
- XRC 435** Lowest cost formulation specifically designed to replace leaded security curtains. The material is primarily intended as an economy standard 0.35mm PbEq and 0.5mm PbEq for scanners operated at 160 kVp.
- XRC 434** Lighter weight material for minimum 0.5mm and 0.6mm shielding equivalents. For security scanners operating from 160 to 220 kVp.
- XRC 432** Broad-spectrum shielding material primarily manufactured with a 1.0 mm PbEq for use in cargo scanners operating from 160 to 320 kVp.

Xyflex® is certified Lead-free and Compliant with RoHS 3 (EU Directive 2015/863)

XrayCurtains.com offers a complete array of lead and lead-free curtains for all types of scanners. These can be custom cut to fit any x-ray scanner.

We recommend Xyflex lead-free x-ray curtains as an environmentally-responsible replacement for leaded curtains. Xyflex uses bismuth and other non-toxic metals for shielding radiation.

[Shop Xyflex Curtains](#)

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Questions?

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