

# AIR-ASSIST

## Installation Manual

Use this manual if your air-assist kit contains the silicon Aperture Nozzle



### AIR ASSIST ACCESSORY FOR THE EMBLASER 2

To help get you started, visit our online Help Centre for the installation guide.

[tinyurl.com/darklylabs](https://tinyurl.com/darklylabs)

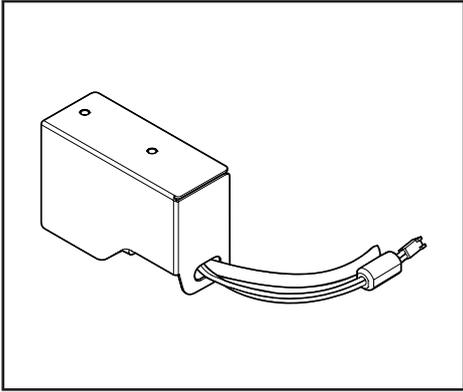
For more help contact: [info@darklylabs.com](mailto:info@darklylabs.com)



Always use your Emblaser 2 safely and responsibly. Please read the safety section in the User Manual and never leave your Emblaser 2 operating unattended.

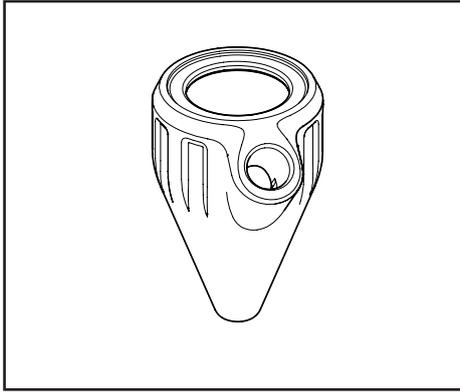
English

# 1. WHATS IN THE BOX



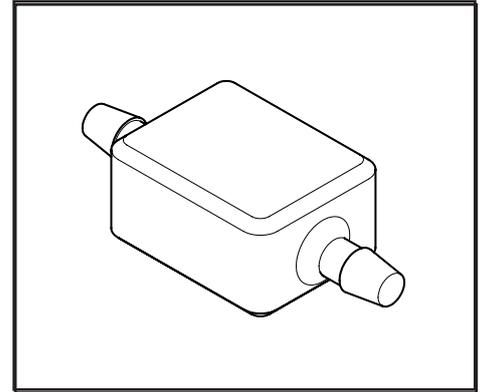
## Air-Assist pump

Air-Assist pump with bracket, wiring and intake hose.



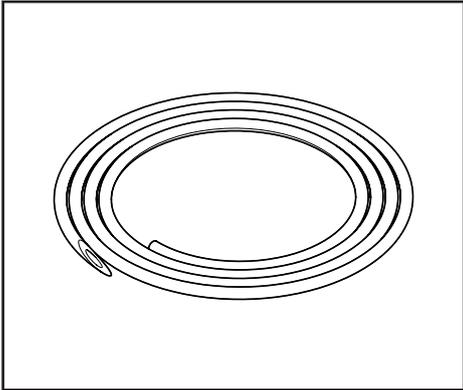
## Aperture Nozzle

Silicon aperture nozzle.



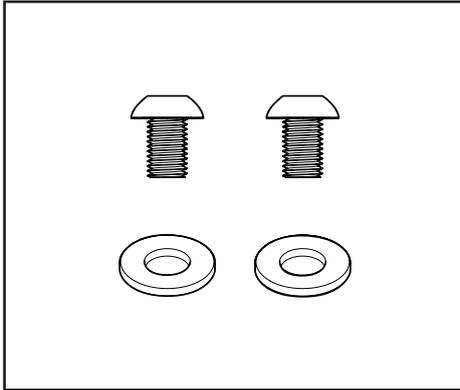
## Intake Filter

Intake hose filter and noise suppressor



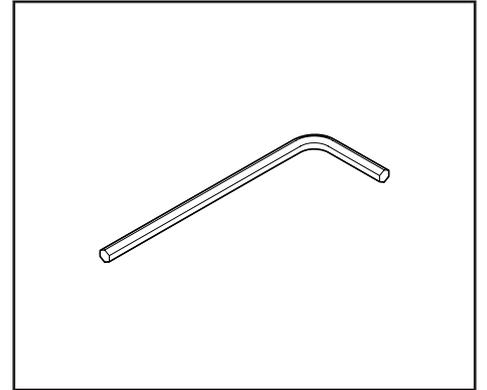
## Hose

Neoprene hose.



## Fasteners

2 x M4x6 button head screws and washers.



## Hex Tool

2.5mm Hex wrench

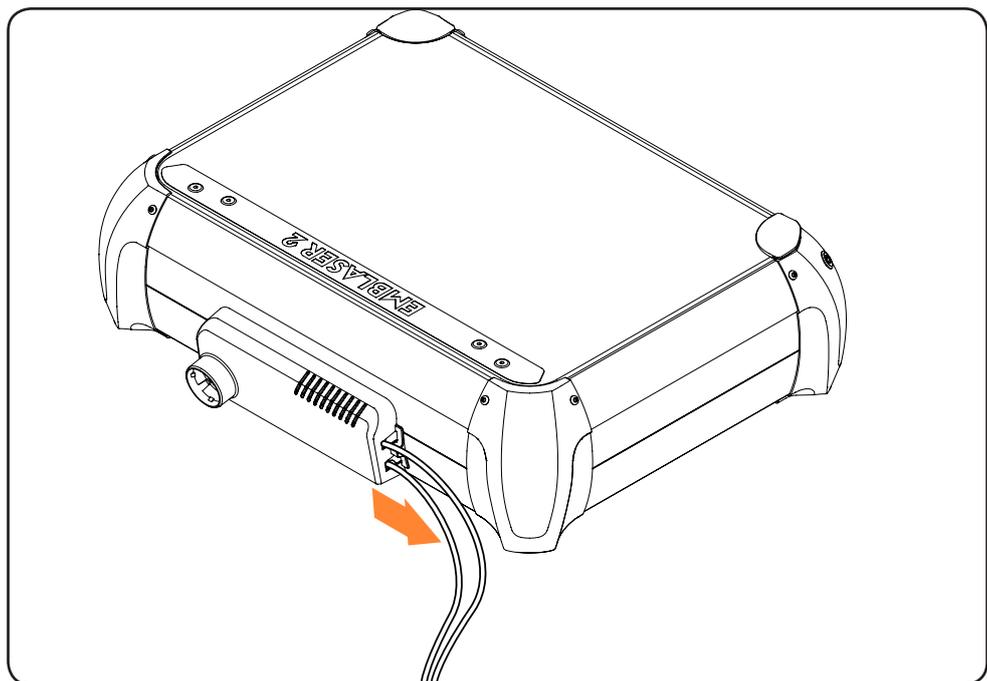


## Information Card

Information on where to download this installation manual.

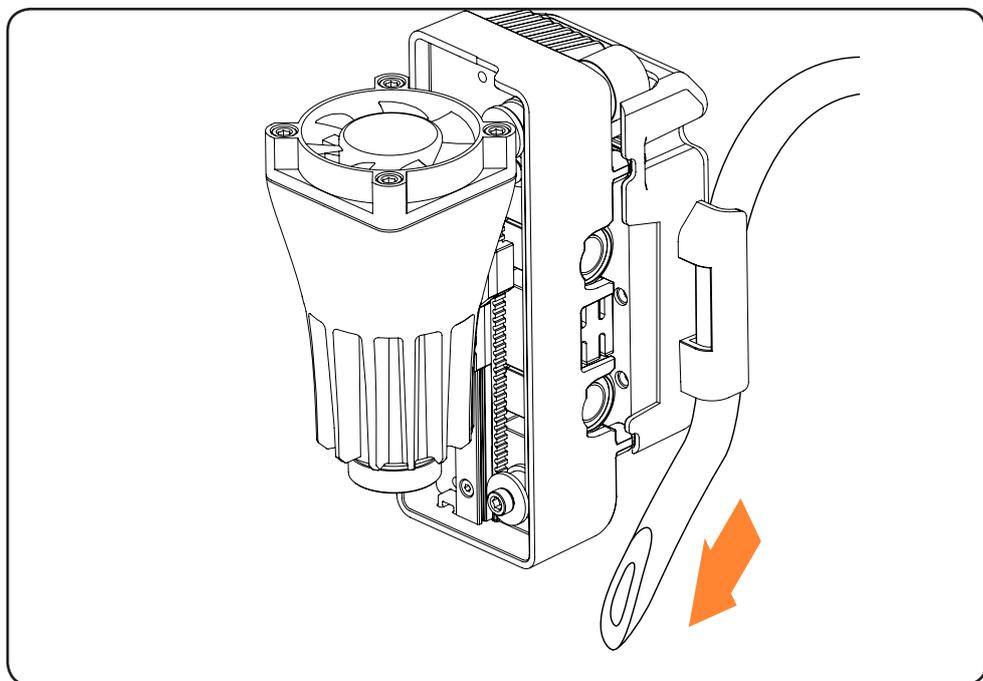
## 2. INSTALLATION

1.

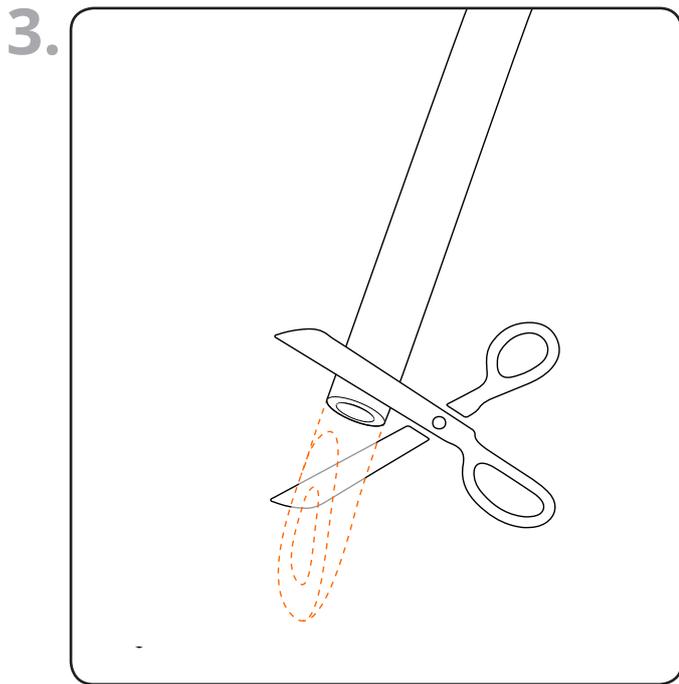


Disconnect the power and USB cables from your Emblaser 2.

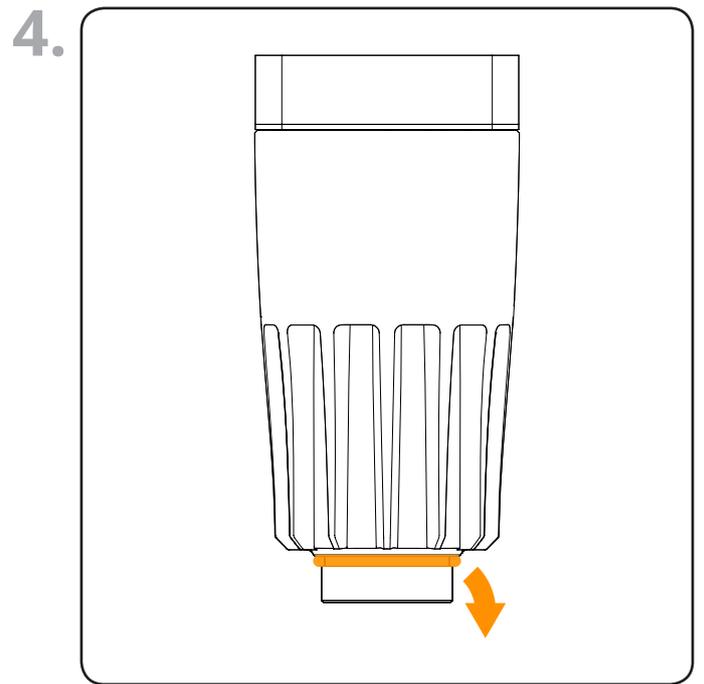
2.



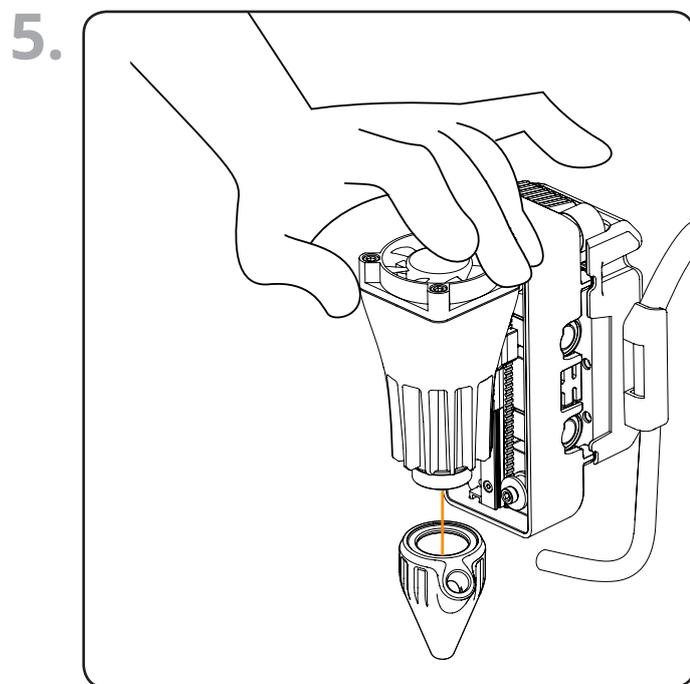
Locate your neoprene hose and find the pointed end.  
Carefully insert this end through the laser carriage hose support as shown in the image.  
Be careful when handling the laser carriage. Do not apply excessive force that may cause damage or bend the rails.



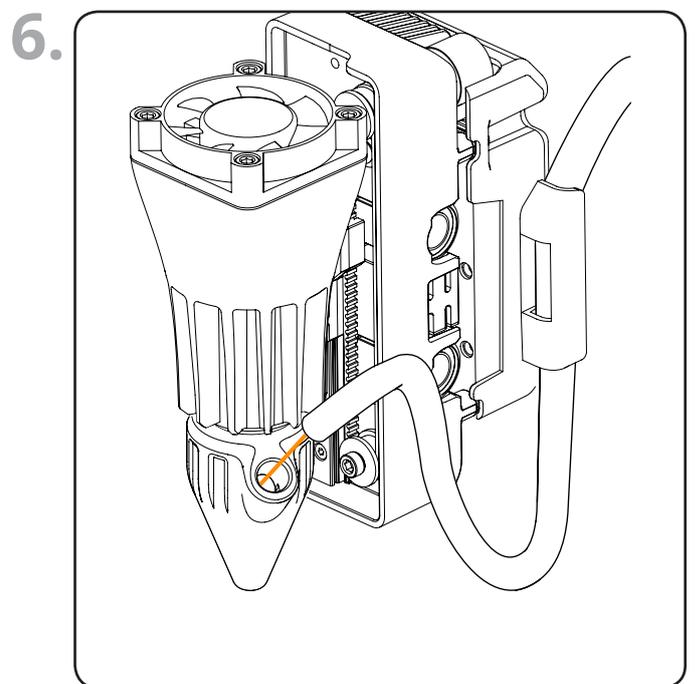
The neoprene hose has been cut to a precise length, so perform the following step carefully. Cut off the pointed portion of the neoprene hose with a pair of scissors or sharp knife.



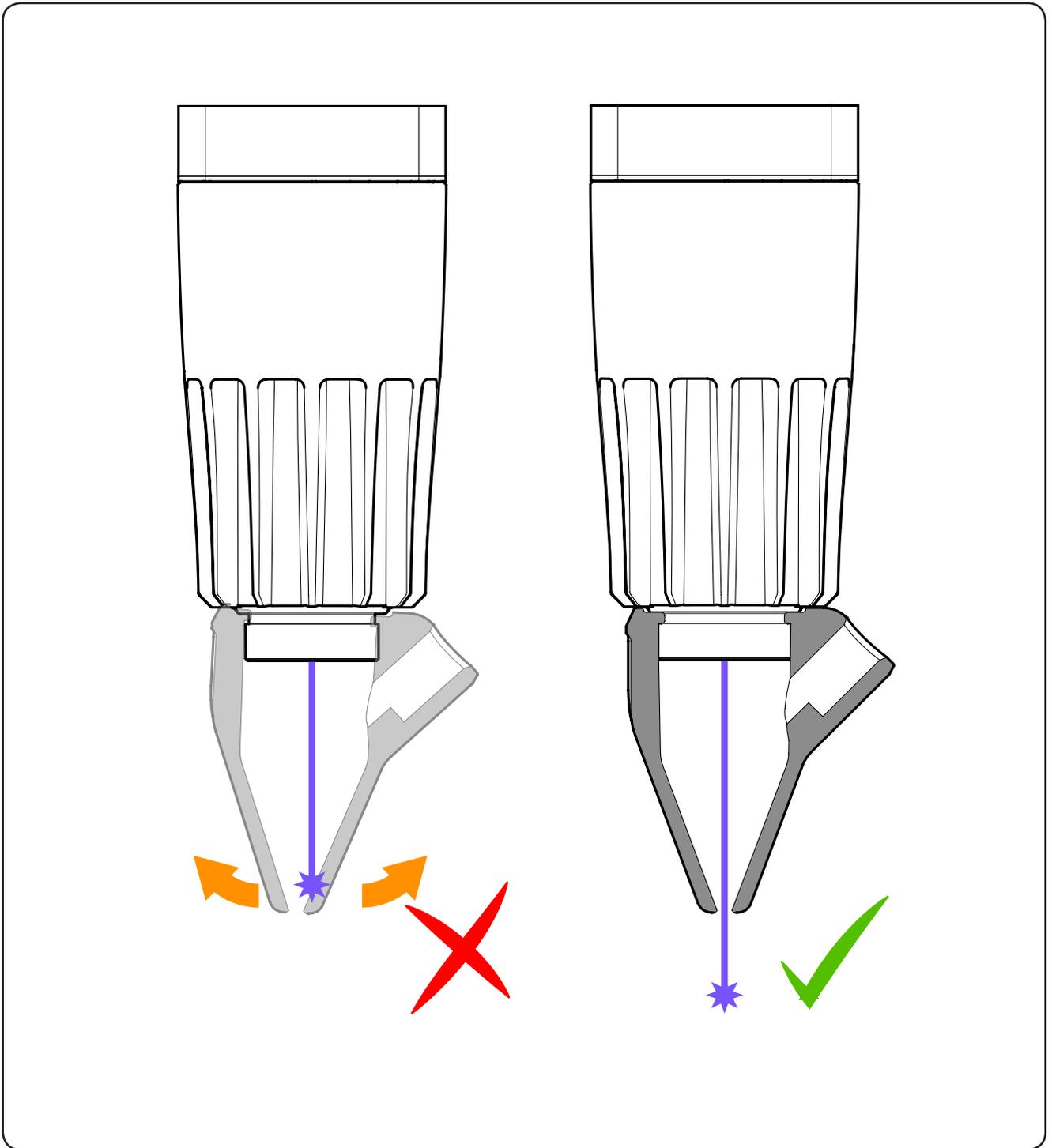
If your laser unit contains an o-ring seal, remove it.



Holding the heat-sink with one hand, attach the silicon Aperture Nozzle to the black cylinder under the heat-sink. It will clip into the small groove.



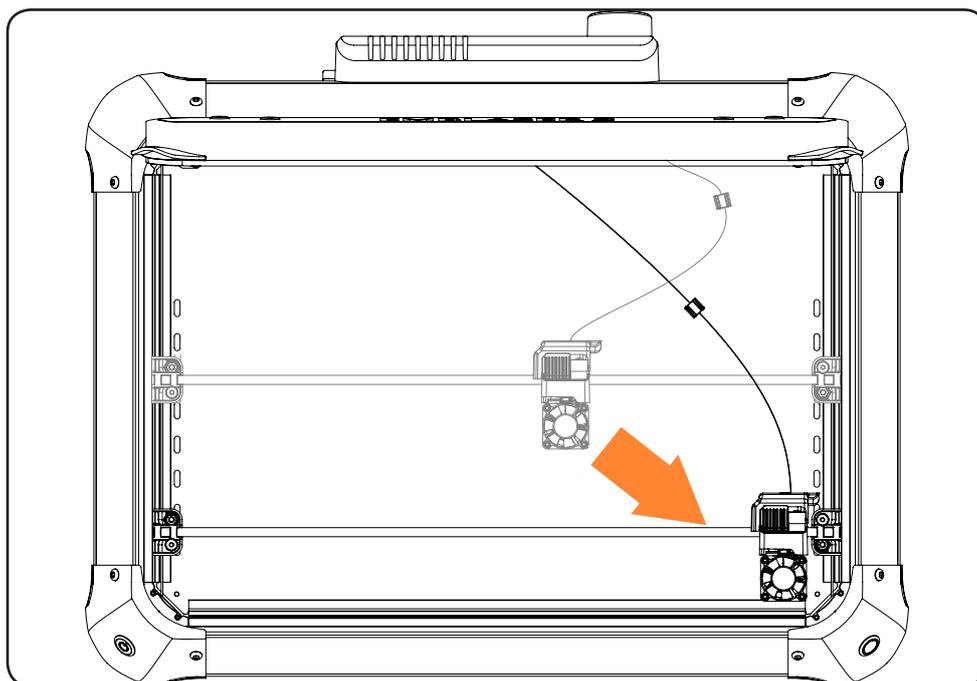
Insert the trimmed end of the tube into the Aperture Nozzle until you feel resistance. Do not push it in too far or it may interfere with the beam.



Take a moment to ensure that the tip of the Aperture Nozzle is positioned correctly. If the nozzle is out of alignment, it may interfere with the beam and reduce the performance of your machine.

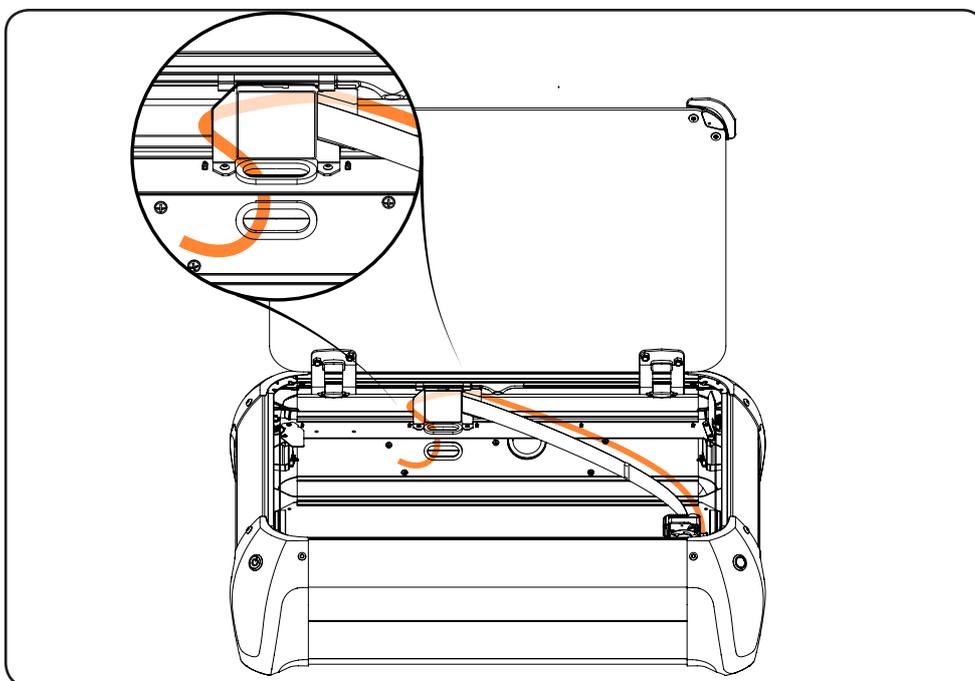
One way to do this is to rotate the Aperture Nozzle back and forth 90 degrees to ensure it is fully seated in its groove.

7.



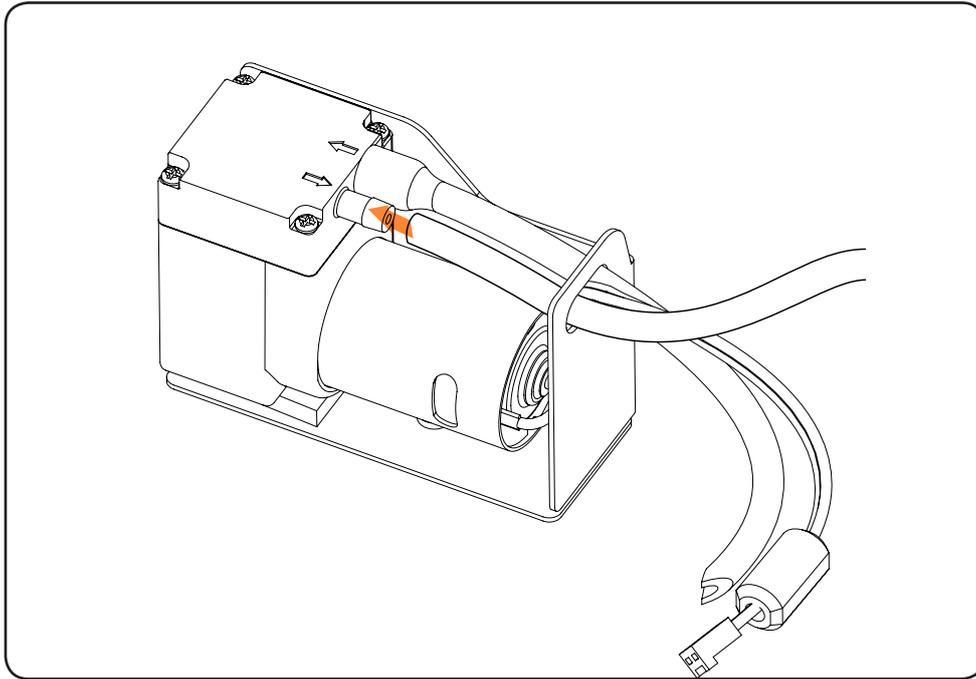
**Slowly** move the laser carriage to the bottom right corner of the workspace.

9.



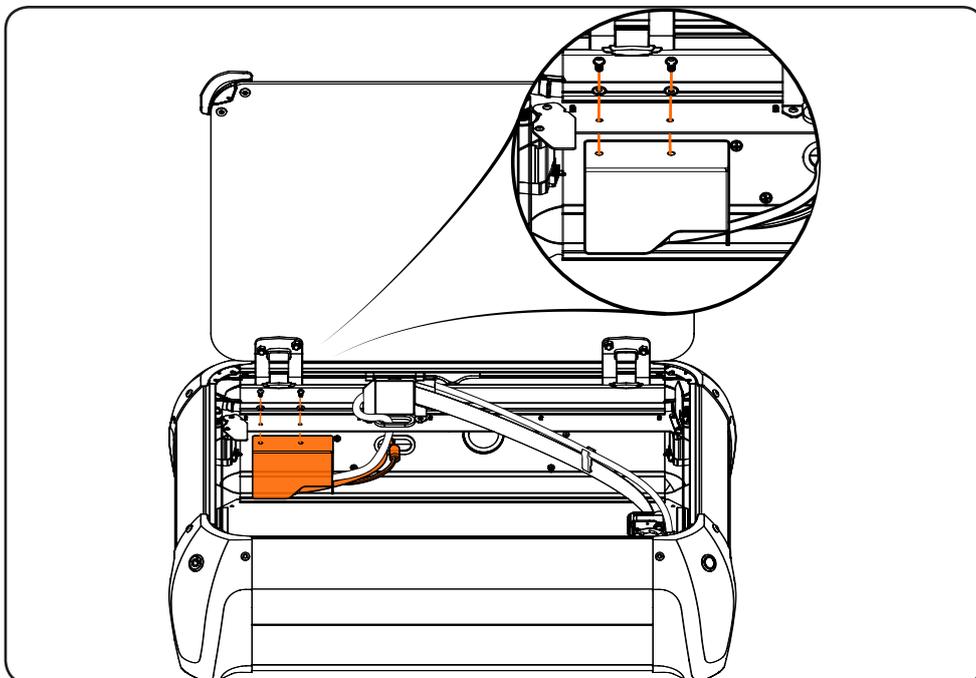
Route the neoprene hose as indicated in the diagram. Always be careful when handling the flexible cable connected to the laser carriage. This part is delicate and should never have sharp folds or bends placed into it.

8.



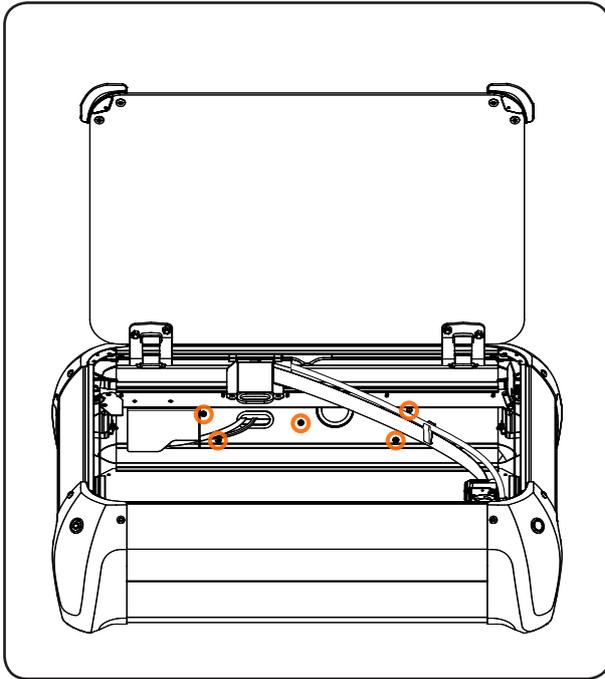
Remove the protective cap on the exhaust barb of the compressor. Pass the end of the neoprene hose through the opening in the metal compressor housing and slide it onto the exhaust barb of the compressor.

10.

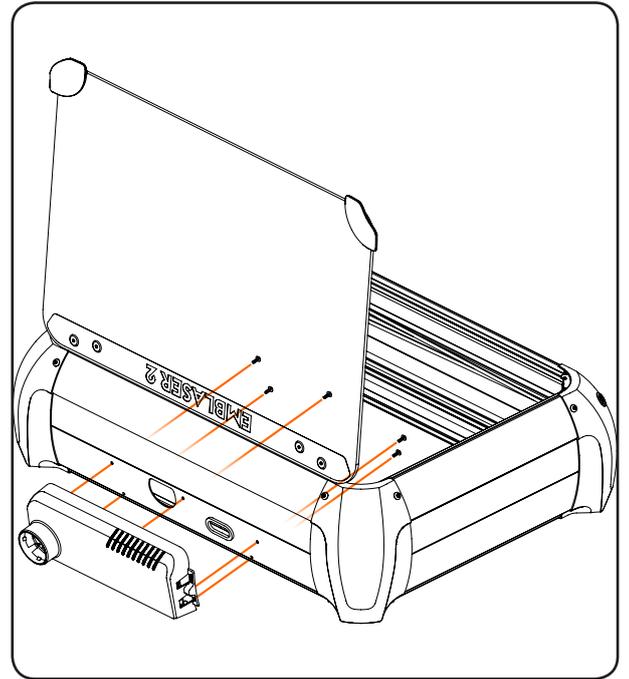


Using the screws and washers provided, attach the metal compressor housing to the Emblaser 2 as shown.

11.

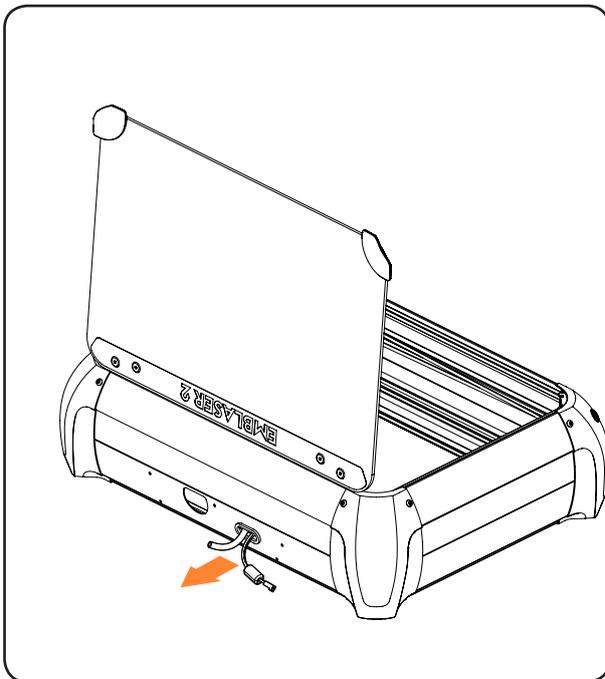


Using a Phillips screwdriver, remove the five (5) screws holding the electronics pod in place.

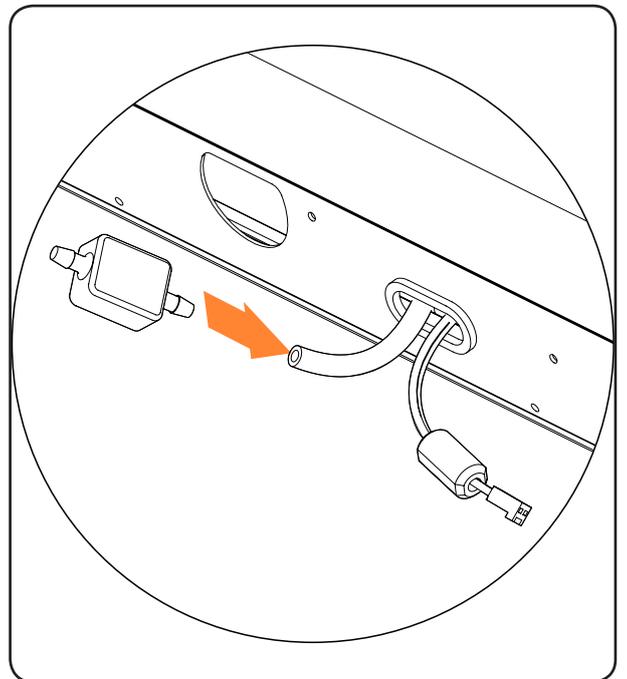


With the rear pod unscrewed, carefully move it out of the way paying attention not to unplug any cables.

12.

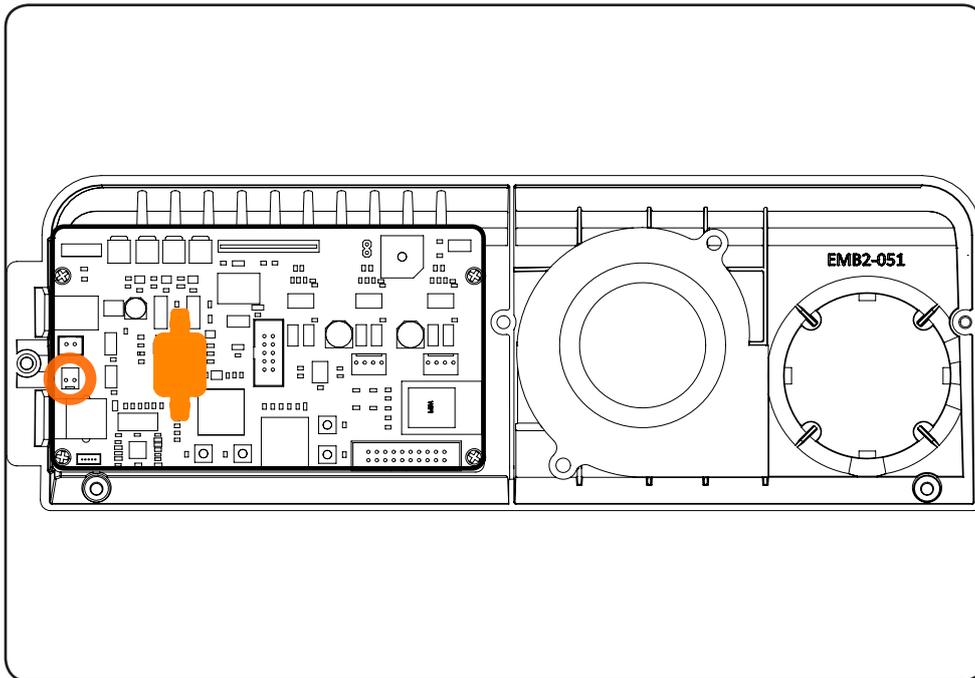


Pass the air-assist cable and short neoprene hose through the rubber grommet.



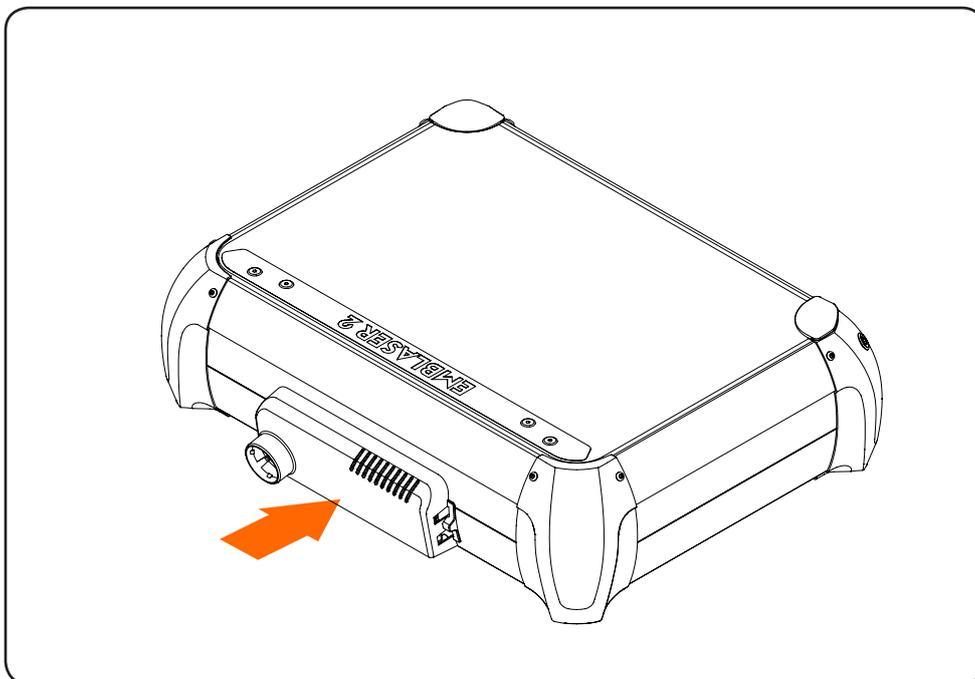
Attach the intake filter to the intake hose. Either side of the intake filter can be used.

13.



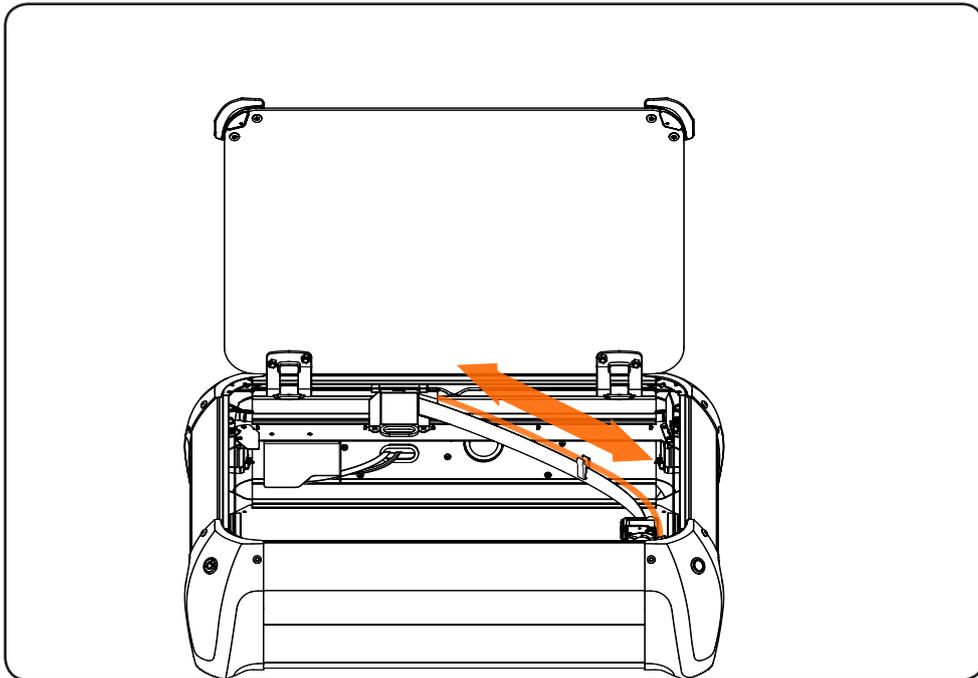
Plug the air-assist connector into the plug on the electronics board as shown in the image.  
The intake filter should sit in the electronics pod freely, without interfering with wiring.

14.



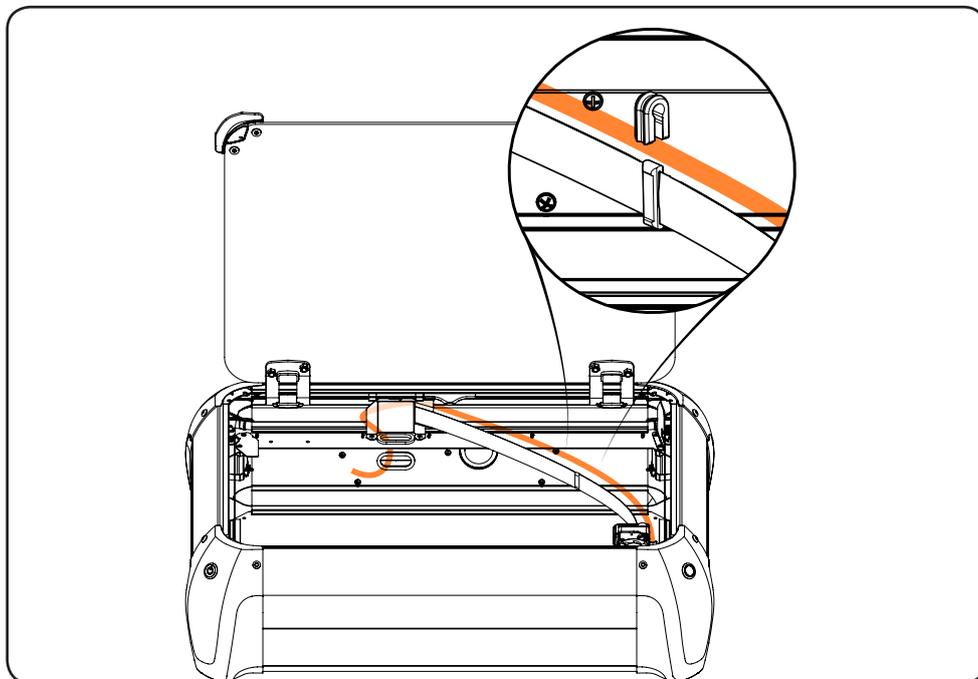
Reattach the electronics pod, by screwing in the 5 screws removed in Step 13. Be careful to not trap any wires between the pod and the rear of the machine.

15.



Gently adjust the hose position to remove tension and/or slack. The hose should be in a relaxed state without excess looping. **Never move the laser carriage around quickly by hand as this could damage the electronics.**

16.



Slide on the hose retaining clip.

Note: If your machine does not contain this type of clip, ignore this step.

# Technical support

If you have trouble installing your Air-Assist Accessory, please check our Knowledge Base or contact us through the Help Centre.

Help Centre / Knowledge Base: [darklylabs.com/help](https://darklylabs.com/help)



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