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Purpose

This guide outlines the procedure for removing and cleaning the pump head for the 1063 Sci-Pump.

Required Material and Equipment

- 2.5mm and 4mm Hex wrenches
- Vice grips
- Cleaning solution (Warm water and mild detergent)
- Drying solution (Isopropanol or Ethanol)

Intended Audience

Scinomix 1063 Sci-Pump users.

Prerequisites

N/A

Procedure

1. Turn off the Sci-Pump and remove the power cord.



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2. Turn the pump upside down and remove the 4 screws with locking washers.

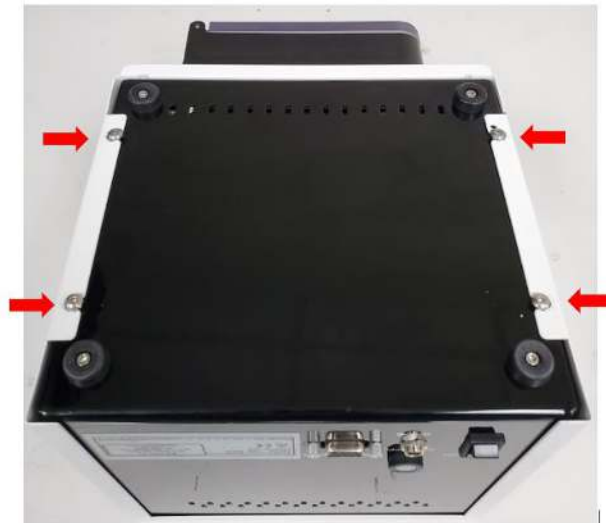


Figure 1.



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3. Turn the pump right-side up, and remove the white shell. Bend the two sides out until they clear the bottom, and then lift them up and off.



Figure 2.



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Figure 3.



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4. Locate the metal collar on the pump head drive shaft.

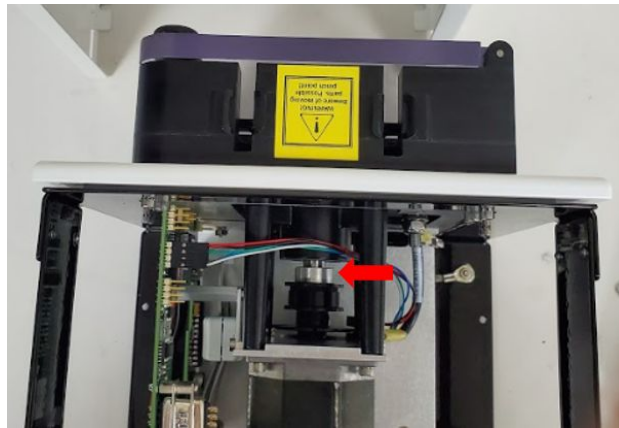


Figure 4.

5. Use vice grips or pliers to prevent the metal collar and the pump drive shaft from turning while loosening the 4mm hex screw which holds the pump head on the shaft. (View from the top is shown below.)



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Figure 5.

- When the pump head is removed, locate the small washer behind the pump head (keep the washer and the screw together while cleaning the pump head).

Figure 6.

- Soak the pump head in warm water and mild detergent for 10 minutes. Sonicate or manually spin the white rollers while soaking to remove any debris.
- Rinse the pump head with clean water.
- Soak the pump head in alcohol (isopropanol or ethanol) for 1 minute.
- Remove the pump head and dry thoroughly.
- Test the function of each white roller by spinning each one by hand; they should spin freely.
- Replace the washer into the back side of the pump head, then mount it to the pump drive shaft. Hold the shaft to tighten.



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- 13. Replace the shell and screws with locking washers.
- 14. Make sure to test pump performance and reproducibility regularly.

Definitions

N/A

Revision History

Version	Change	Date Effective	Approved by
A	New	09/23/2019	BF