



Paste Tube Motor Replacement

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1. Purpose

Provide instructions on tube motor replacement.

2. Equipment and Materials

#	Item No.	Item Name	Figure	QTY
1.	09-EASY-0211	Motor		1
2.		4mm Allen key		1
3.		3mm Allen key		1
4.		2.5mm Allen key		1

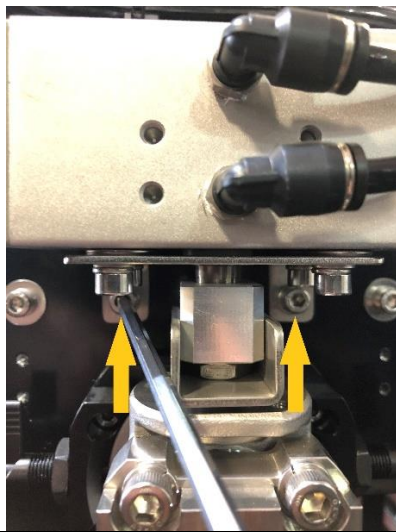
#	Item No.	Item Name	Figure	QTY
5.		1.5mm Allen key		1

3. Replacing a Tube Motor

1. Locate the paste valve at the front of the MDS carriage.



2. Unscrew the two marked bolts using the 4mm Allen key.

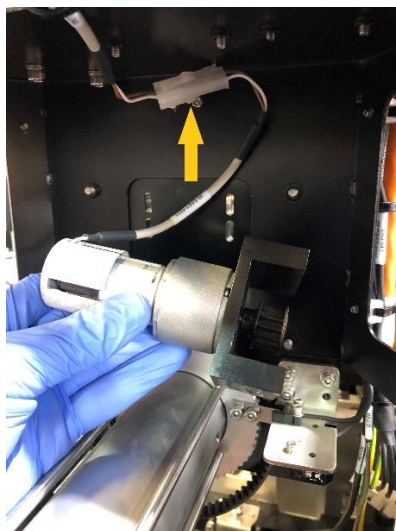


3. Put the valve aside to reveal the four bolts behind it.
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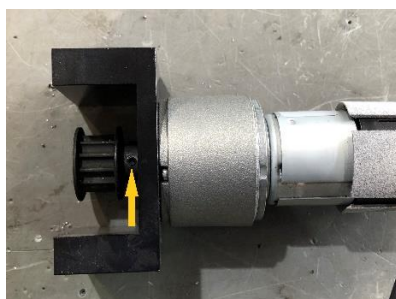
4. Unscrew the four marked bolts using the 3mm Allen key while supporting the tube motor on the other side of the bracket.



5. Once the motor is free of its bracket, remove the belt from the sprocket and then disconnect the Molex connector.



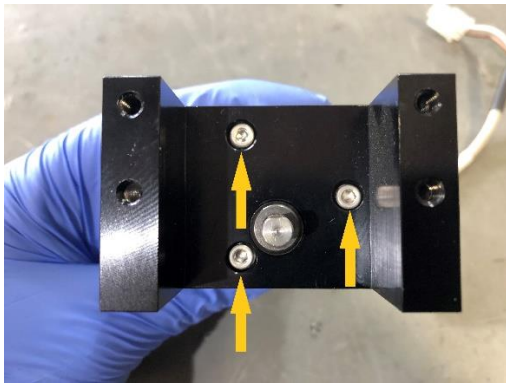
6. Unscrew the **two** sprocket setscrews located at the base of the sprocket.



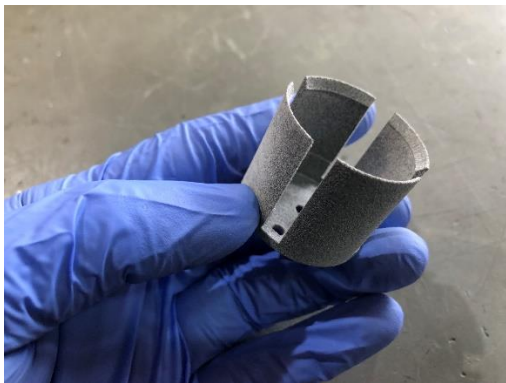
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- Slide off the sprocket from the motor shaft.



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- Unscrew the three marked bolts using the 2.5mm Allen key to remove the motor from its bracket.



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- Remove the plastic cover from the back of the motor.



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- At this point the motor is fully naked and ready to be replaced.



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- Reinstall the mount on the new motor by screwing in the three bolts using the 2.5mm Allen key.
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12. Slide the sprocket back on the motor shaft and tighten the **two** setscrews using the 1.5mm Allen key.



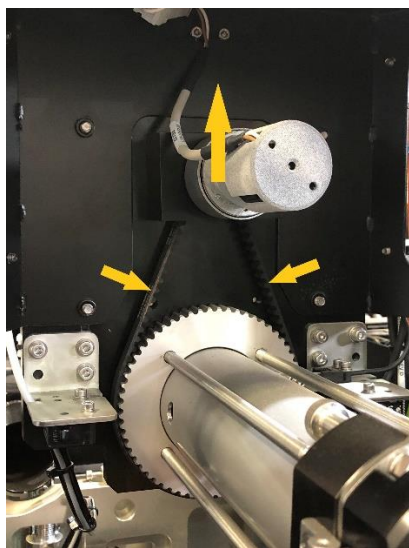
NOTE: Make sure that the first screw is tightened against the flat surface of the shaft to avoid the sprocket from slipping.

13. Clip the plastic cover to the new motor.

14. Reinstall the motor assembly to the carriage. Firmly push the motor upwards while tightening the mounting bolts to put the belt under tension.



NOTE: Test the tension by pressing and pulling the belt as shown - the belt slack should only be few millimeters at the correct tension.



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15. Reconnect the Molex power connector.
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16. Reinstall the paste valve.
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17. Test the motor function by turning it on manually using the GUI.
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18. End of procedure.
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4. Revision History

Date	Comments	Revision
August 18, 2022	First Release	1.1
January 3, 2023	Add motor image and PN, move history table to last page	1.2