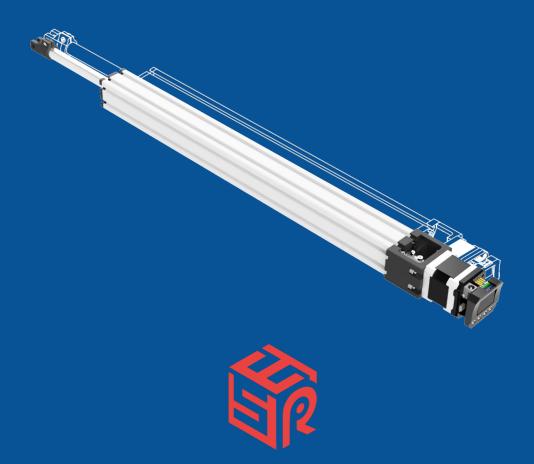
# uStepper Linear Actuator

M8 lead screw



### Introduction

This document describes the assembly and use of uStepper Linear Actuator and related products.

Product: uStepper Linear Actuator M8

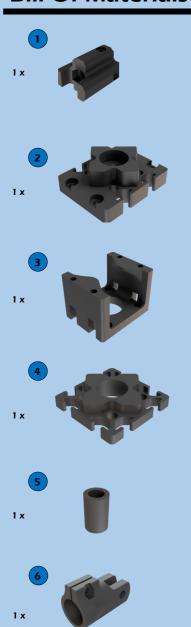
Document revision: 1.0

**Author: MGN** 

Approved by: THO

Approval date: November 19th 2019

## **Bill Of Materials**



## **Bill Of Materials**



1 x uStepper Ego Shield S



1 x uStepper S w. motor



1 x M8 lead screw x 470 mm



1 x 40x40 l-type slot 5, 450 mm



1 x M8x5 coupler







3 x M3 x 10 mm



4 x M4 x 35 mm



8 x M5 x 20 mm



1 x M3 SL nut



4 x M4 SL nut



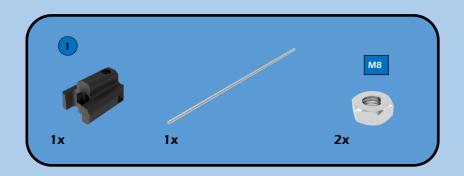
1 x M8 SL nut



2 x M8 nut



## **Linear Actuator Assembly**



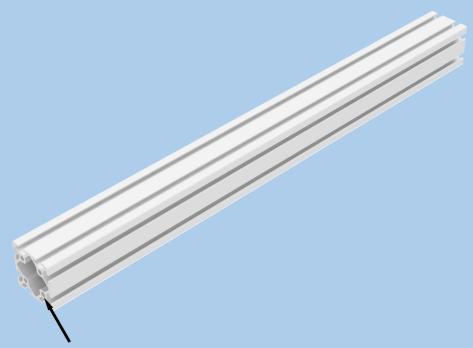
Make sure the two M8 nuts sit tight in the plastic slider when screwed onto the M8 rod





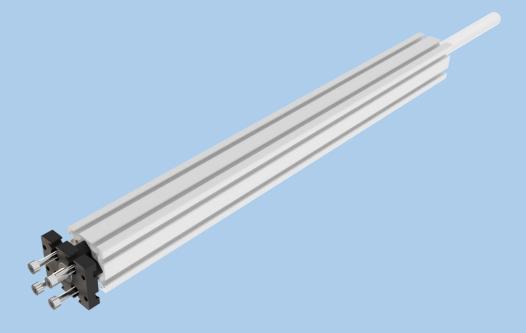






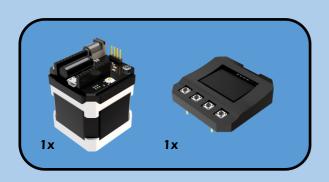
Use M5 Tap to make thread in the 4 holes at both ends of the profile

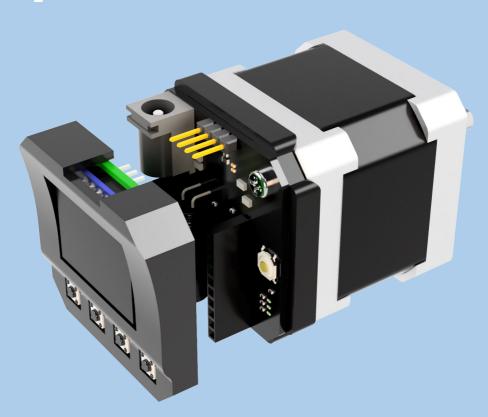




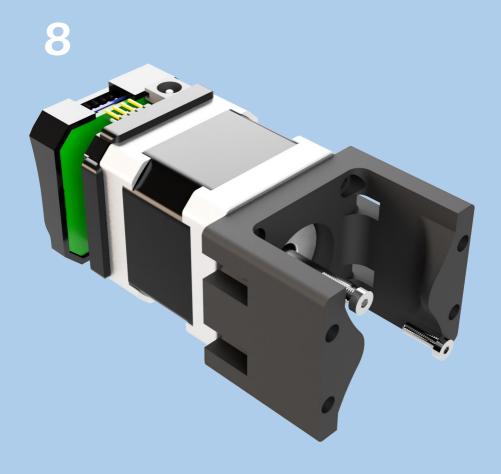










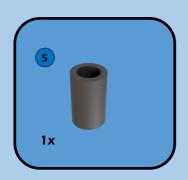














Push cap over M8 rod located inside tube









### Using uStepper & Ego Shield

To get started with using the linear actuator with uStepper S and Ego Shield S load the Ego Shield Teach example sketch and/or follow the instructions below!

#### Mounting uStepper

To see how you mount uStepper S to your stepper motor correctly, please visit the product sheet by pressing <u>THIS LINK</u> or scanning the QR code here on the right!



#### Mounting and using Ego Shield

To see how you mount the Ego Shield and what functionality comes with it please visit the product sheet on THIS LINK or scan the QR coder here on the right!



#### Video Tutorials

On our YouTube channel you will find video tutorials on how to mount uStepper S, setting it up in the Arduino IDE and programming it. You will also find a tutorial for using the Ego Shield with the linear actuator!



Mounting uStepper S



Programming uStepper S



Using Ego Shield

For further info visit www.uStepper.com and our YouTube channel!

### Disclaimer

#### 1 Disclaimers and Limitation of Liability

- 1.1 uStepper ApS and/or ON Development IVS (or any individuals affiliated with either of the two companies) can not be held responsible for any damage inflicted upon mounting or interfacing with uStepper products This also includes damage to stepper motors (both electrical and mechanical) or any other 3rd party hardware connected to or interfacing with any uStepper products. Most stepper motor cases are made of aluminum, and care must be taken when preparing the mountings for uStepper.
- 1.2 uStepper ApS and/or ON Development IVS (or any individuals affiliated with either of the two companies) can not be held responsible for any damage inflicted upon assembly of the uStepper Robot Arm. This includes damage to 3D printed parts, which must be considered to be of prototyping quality compared to injection moulded parts. Care must be taken while assembling 3D printed parts, and use of excessive force may lead to damage of the parts.
- 1.3 By using the uStepper products (including, but not limited to, hardware and software) you acknowledge that uStepper ApS and/or ON Development IVS (or any individuals affiliated with either of the two companies) can not be held responsible for any personal injuries and/or damage to any 3rd party hardware that may occur when using the uStepper products.
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- 1.5 Nothing in these Terms and Conditions shall be construed so as to hold uStepper ApS and/or ON Development IVS liable for death or personal injury as a result of the negligence of uStepper ApS and/or ON Development IVS or that of its employees or agents.

#### 2 Indemnity

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#### 3 Severance

If any of these Terms and Conditions should be determined to be invalid, illegal or unenforceable for any reason by any court of competent jurisdiction then such Term or Condition shall be severed and the remaining Terms and Conditions shall survive and remain in full force and effect and continue to be binding and enforceable.

