

① Assemble X-Winder

Download Assembly Diagrams from Xwinder.com/Build

② Download Software

Download PC software from Xwinder.com/Build

③ Start Winding

See instructional videos on XWinder.com/Videos

Frame Bars

- 2x 20" Cross Bars (1x1")
- 2x 20" Carriage Wing Bars (1x1")
- 8x 7" Vertical Posts (1x1")
- 1x 16" Reel Cross Bar (1x1")
- 1x 7" DH Slide Bar (1x1")
- 2x 7-1/4" Mandrel Posts (1x2")
- 1x 1-3/4" Carriage Motor Post (1x2")
- 1x 1-3/4" Carriage Pulley Post (1x2")
- 1x 4-1/4" DH Slide Bar (1x3")

Aluminum Plate Packages

- Wheel Plate Common
- 3/16" Common Frame
- 3/16" Common Carriage
- 1/16" Common Parts
- 2-Axis Chuck Plates
- 1/16" 2-Axis Plates
- 3/16" 2-Axis Plates

Belts & Gears

- Mandrel Belt (16')
- Carriage Belt (18 feet)
- 1x 1/2" Bore 16T Mandrel Gear
- 2x 12mm Bore 10T Motor Gears
- 1x 1/2" Bore 10T Carriage Gear

Motors

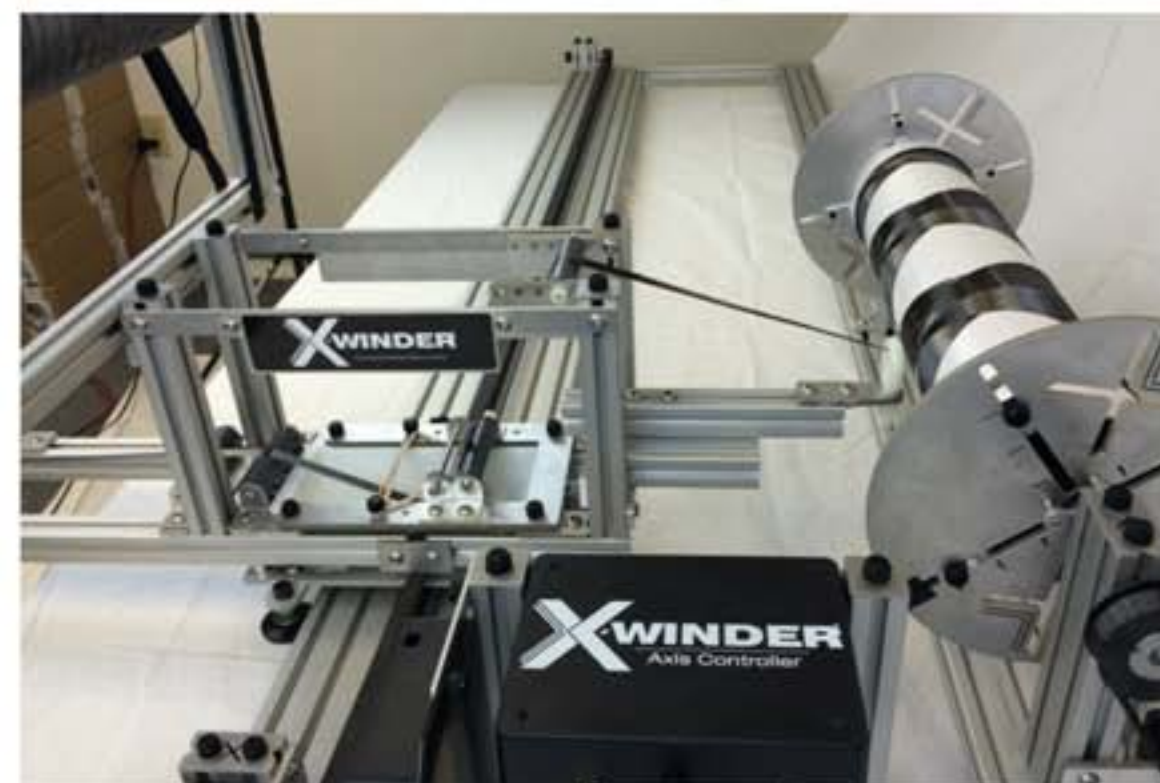
- 2x NEMA23 Stepper w/Gearhead

Fittings, Nuts/Bolts, etc

- 4x Wheels, Axles & 8x Skate bearings
- 4x Carriage Support Bolts and Spacers
- 3x 1/2" OD Shafts and 6x Bearings (UnThreaded)
- 10x Rubber Feet
- 5x PVC Rollers
- 8x 5mm Motor Mount Bolts
- 3x Right Angle Supports
- 1x Limit Switch
- 1x Velcro Elastic Belt
- 14x Double T-Nuts
- 70x T-Nuts
- 50x Black Nylon Thumb Screws
- 15x Concealed End Nuts
- 5x Roller Axles and Nuts
- 4x 1-1/4" Reel & DH Bolts
- 1x 5/32" T-Hex Key
- 2x 1-1/2" Carriage Filament Guides
- 2x 5/8" Back Roller Filament Guides
- 2x X-Winder Stickers
- 8x Chuck Slides
- 1x Poly Tube
- 3x Eyebolts
- 2x Resin Baths
- 1x 1/4" OD Rod for Reel Holder
- 2x 3" Reel Inserts
- 100x T-Nuts

Electronics

- 2x Axis Controller Boxes
- 1x Switch Controller Box w/2x thumb screws
- 1x USB Hub
- 4-way Power Cable
- 24V/3A DC Power Supply
- 1x USA Type Power Cord
- 4x USB Cables



Frame Bars

- 2x 20" Cross Bars (1x1")
- 2x 20" Carriage Wing Bars (1x1")
- 8x 7" Vertical Posts (1x1")
- 1x 16" Reel Cross Bar (1x1")
- 1x 7" DH Slide Bar (1x1")
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- 1x 1-3/4" Carriage Pulley Post (1x2")
- 1x 4-1/4" DH Slide Bar (1x3")

Aluminum Plate Packages

- Wheel Plate Common
- 3/16" Common Frame
- 3/16" Common Carriage
- 1/16" Common Parts
- 4-Axis Acetyl Slides
- 4-Axis Chrome DH Arms
- 2x Large DH Shaft Clamp
- 4-Axis 1/16" Plate Parts
- 4-Axis 3/16" Plate Parts

Belts & Gears

- Mandrel Belt (16')
- Carriage Belt (18 feet)
- 1x 1/2" Bore 16T Mandrel Gear
- 2x 12mm Bore 10T Motor Gears
- 1x 1/2" Bore 10T Carriage Gear
- 1x XL Timing Belt DH Linear
- 1x XL Timing Belt DH Rotary
- 3x 8mm Bore 16T XL Gears
- 1x 8mm Shaft
- 2x 8mm Bore Bronze Bearings

Motors

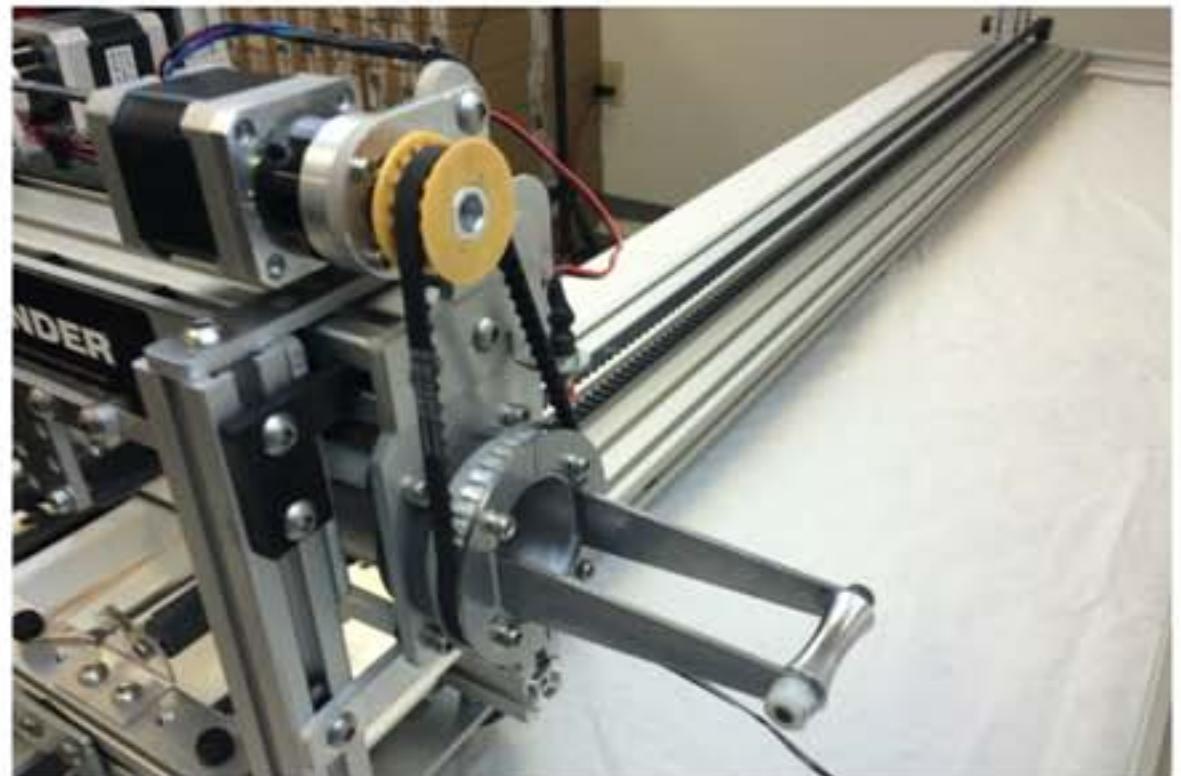
- 2x NEMA23 Stepper w/Gearhead
- 2x NEMA17 Stepper w/Gearhead

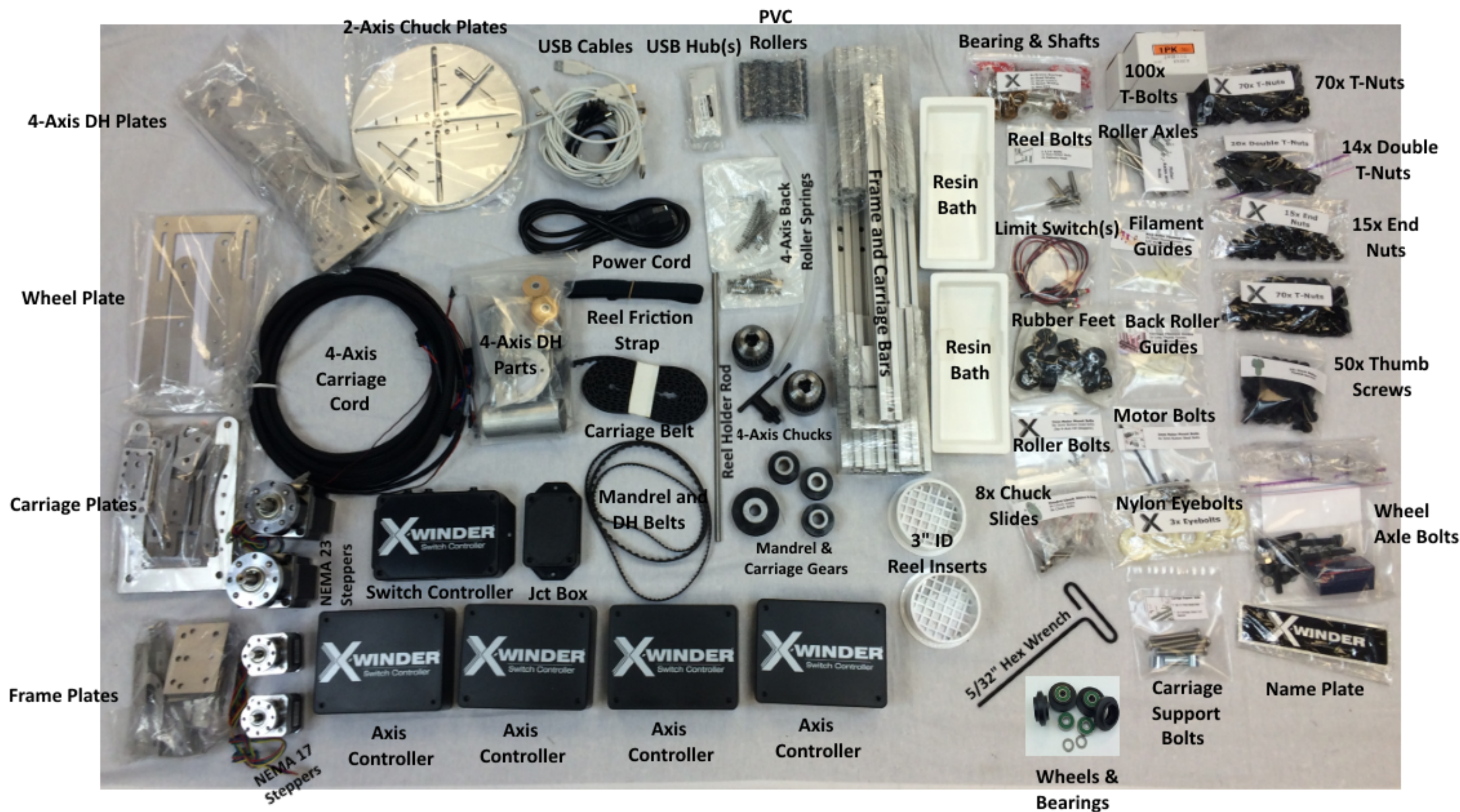
Fittings, Nuts/Bolts, etc

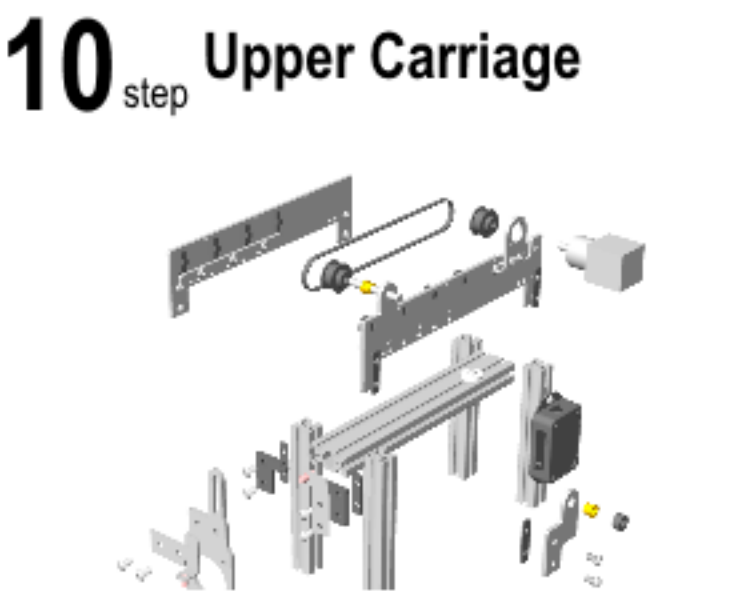
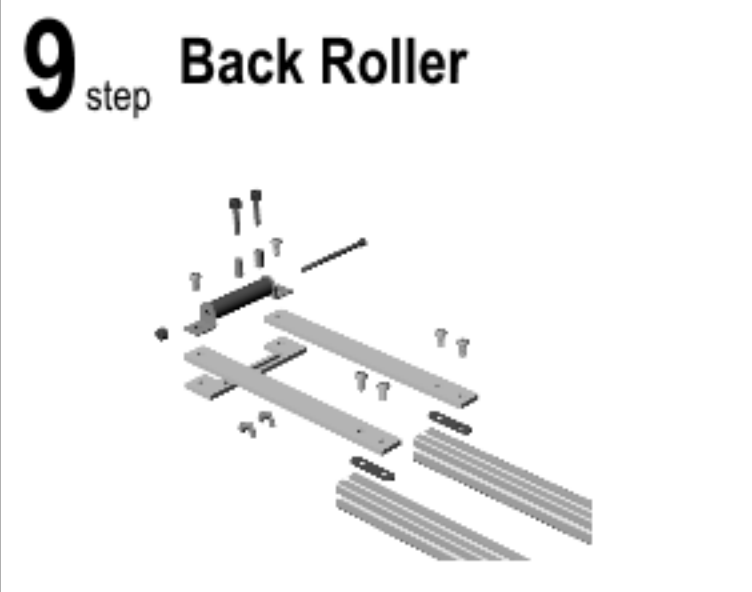
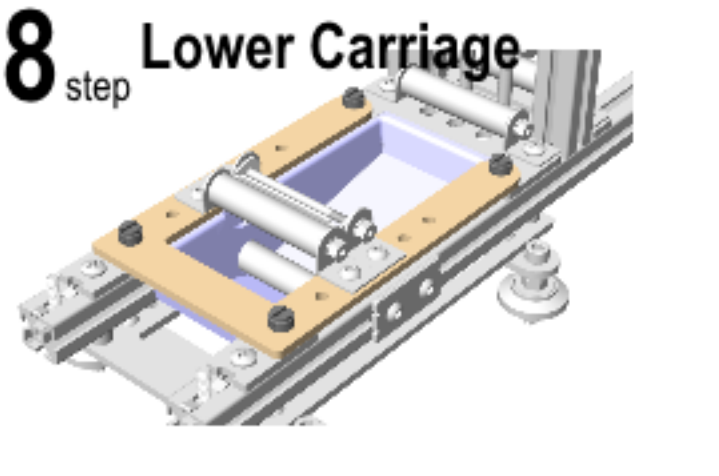
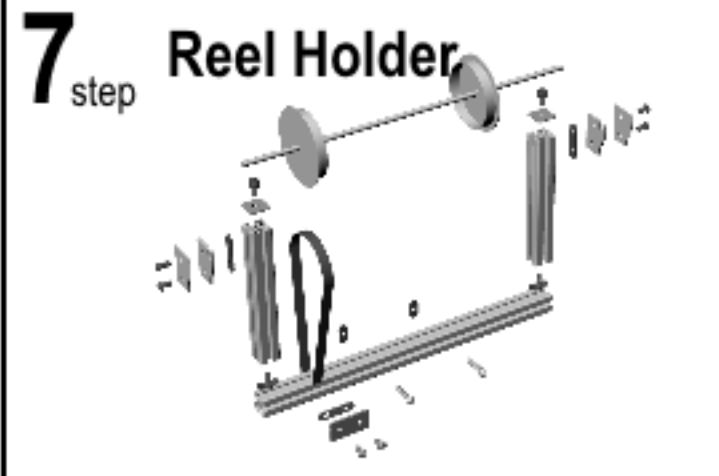
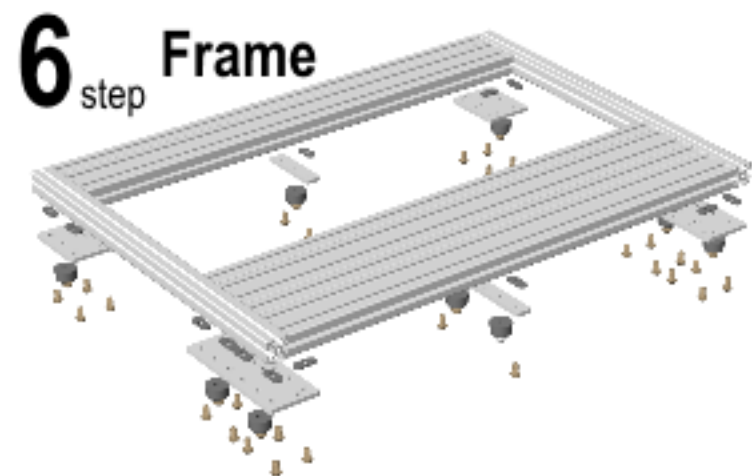
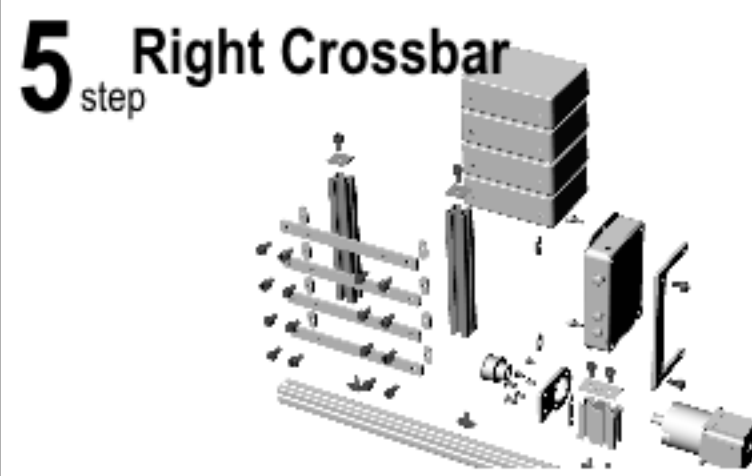
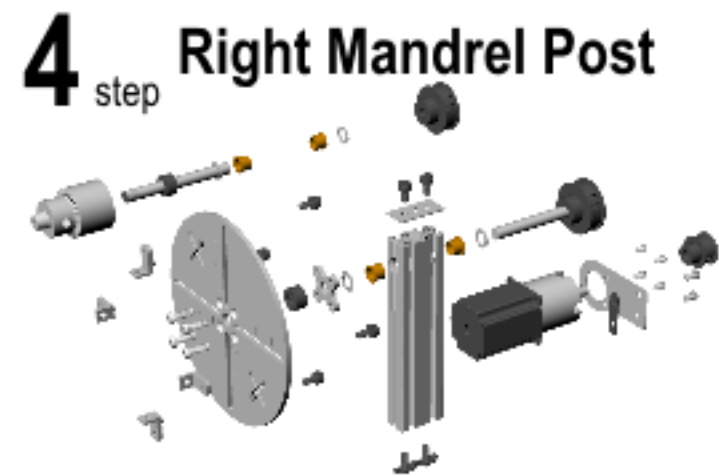
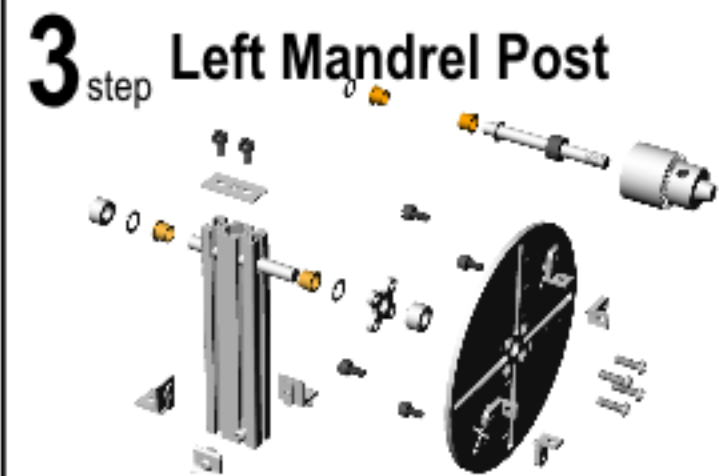
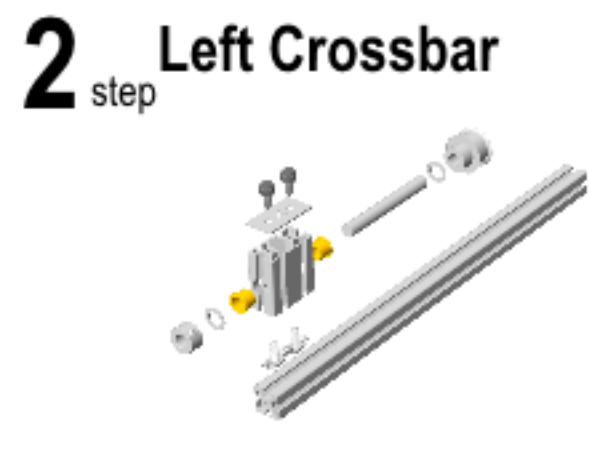
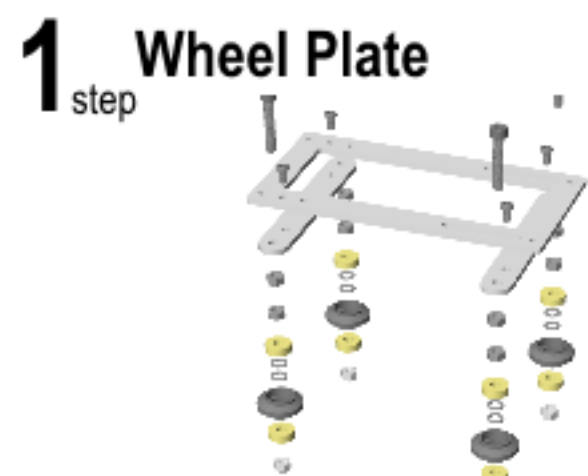
- 4x Wheels, Axles & 8x Skate bearings
- 4x Carriage Support Bolts and Spacers
- 3x 1/2" OD Shafts and 6x Bearings (UnThreaded)
- 10x Rubber Feet
- 5x PVC Rollers
- 8x 5mm Motor Mount Bolts
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- 1x Limit Switch
- 1x Velcro Elastic Belt
- 14x Double T-Nuts
- 70x T-Nuts
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- 4x 1-1/4" Reel & DH Bolts
- 1x 5/32" T-Hex Key
- 2x 1-1/2" Carriage Filament Guides
- 2x 5/8" Back Roller Filament Guides
- 2x X-Winder Stickers
- 2x 5/8" (16mm) Drill Chucks w/1/2"-20 Threads
- 2x Resin Baths
- 1x 1/4" OD Rod for Reel Holder
- 2x 3" Reel Inserts
- 100x T-Nuts
- 2x Concave Roller
- 6x Springs
- 2x Concave Roller
- 8x 3mm Motor Mount Bolts w/Hex Key

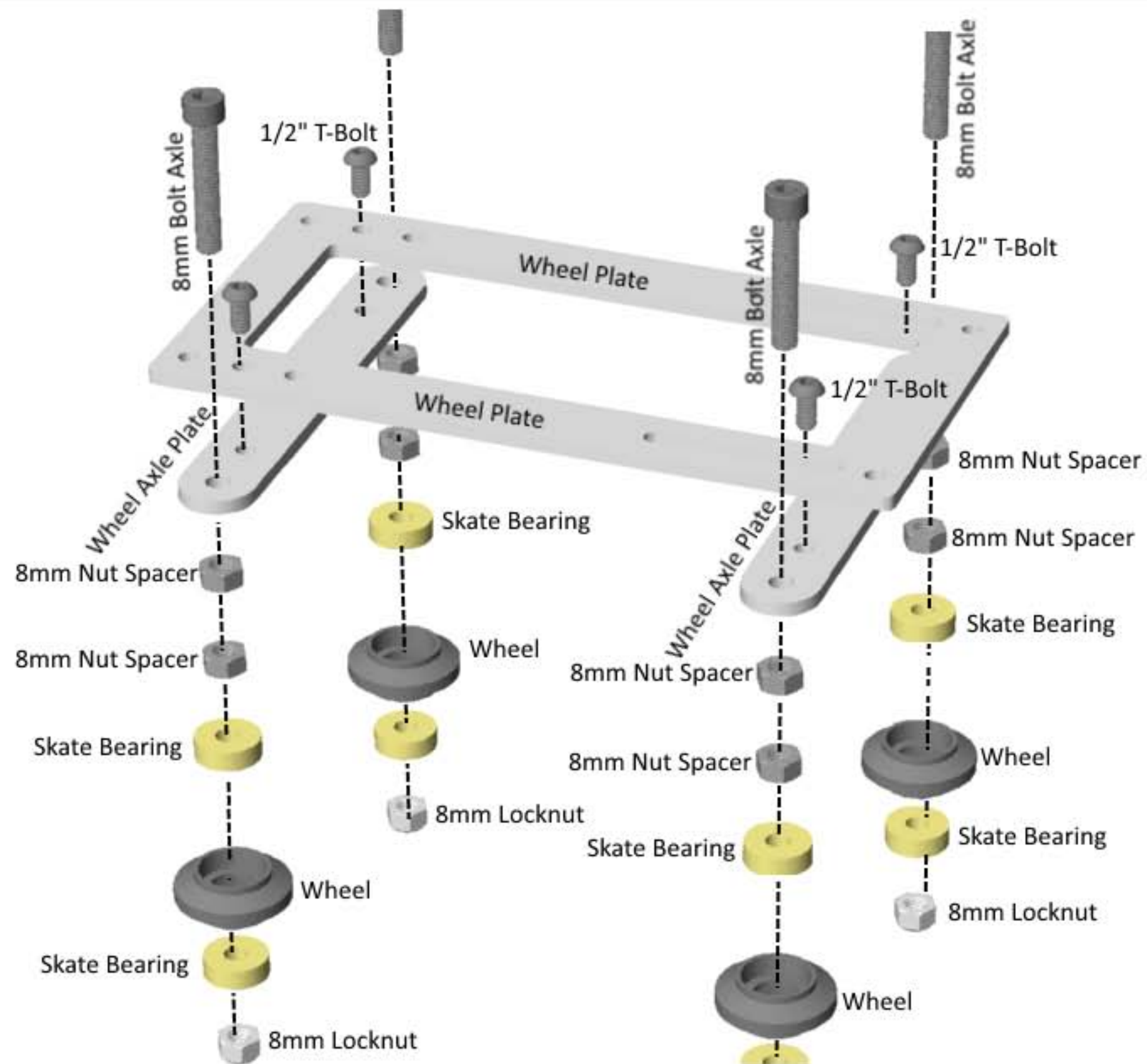
Electronics

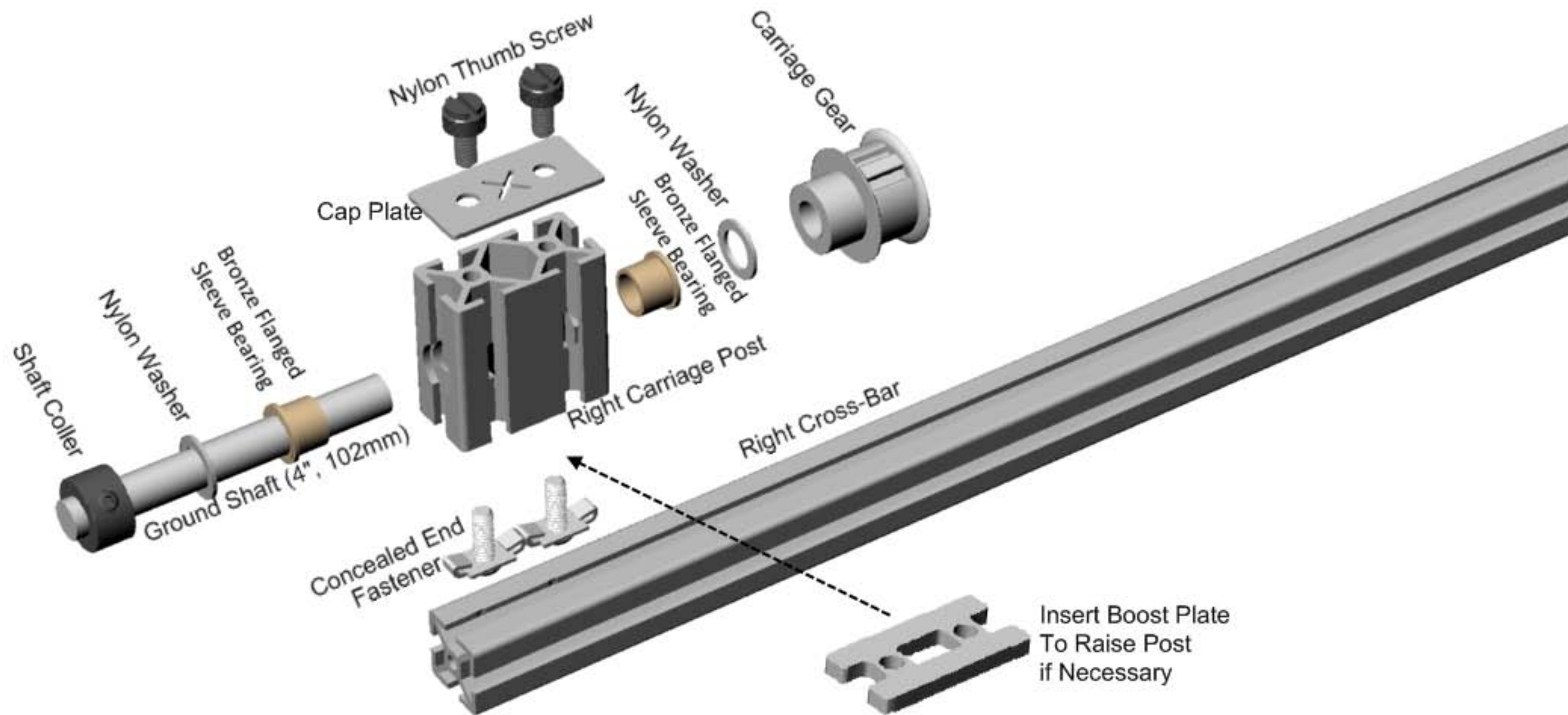
- 4x Axis Controller Boxes
- 1x Switch Controller Box w/2x thumb screws
- 2x USB Hub
- 4-way Power Cable
- 24V/3A DC Power Supply
- 1x USA Type Power Cord
- 6x USB Cables
- Elec Jct Box

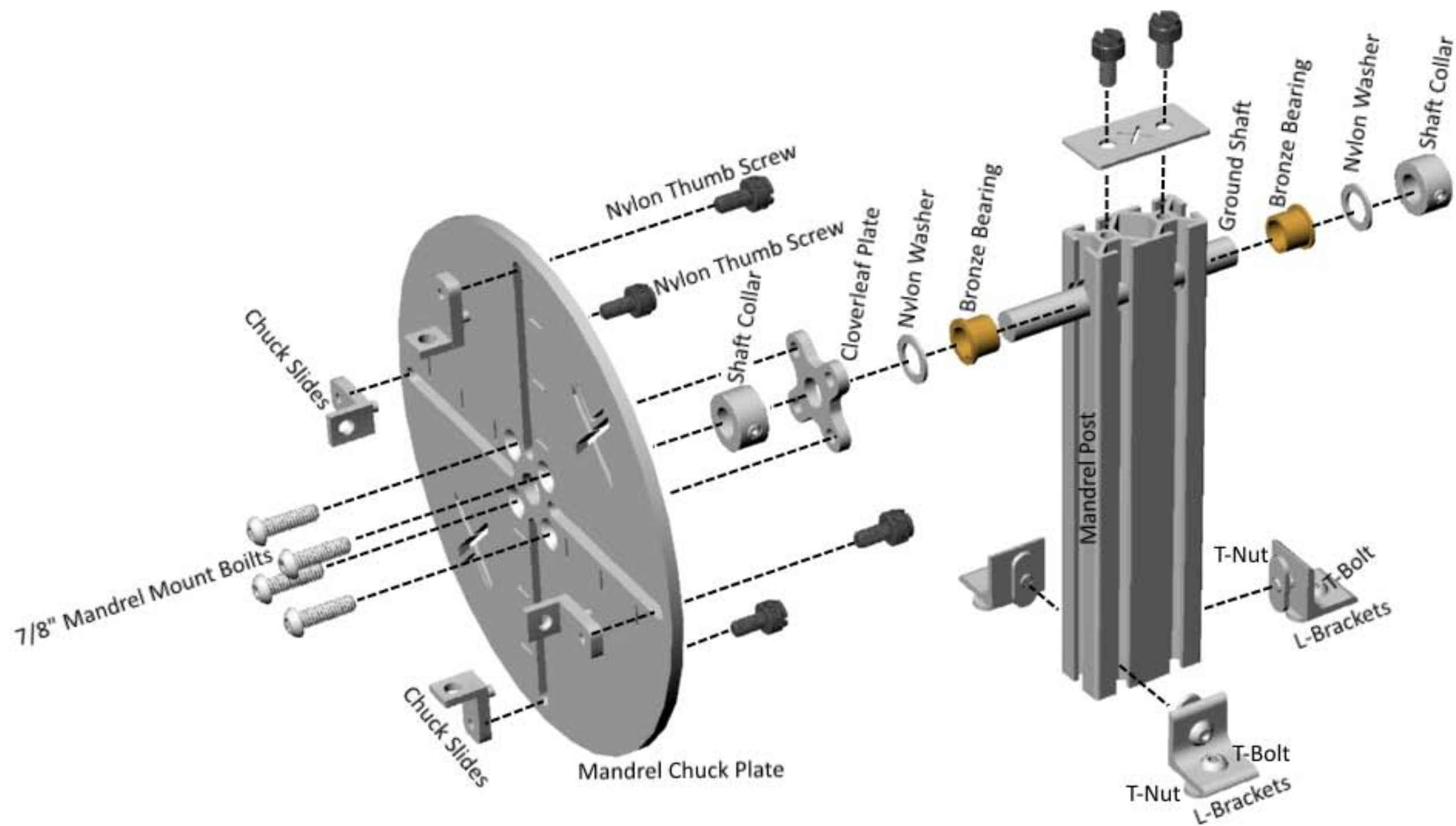


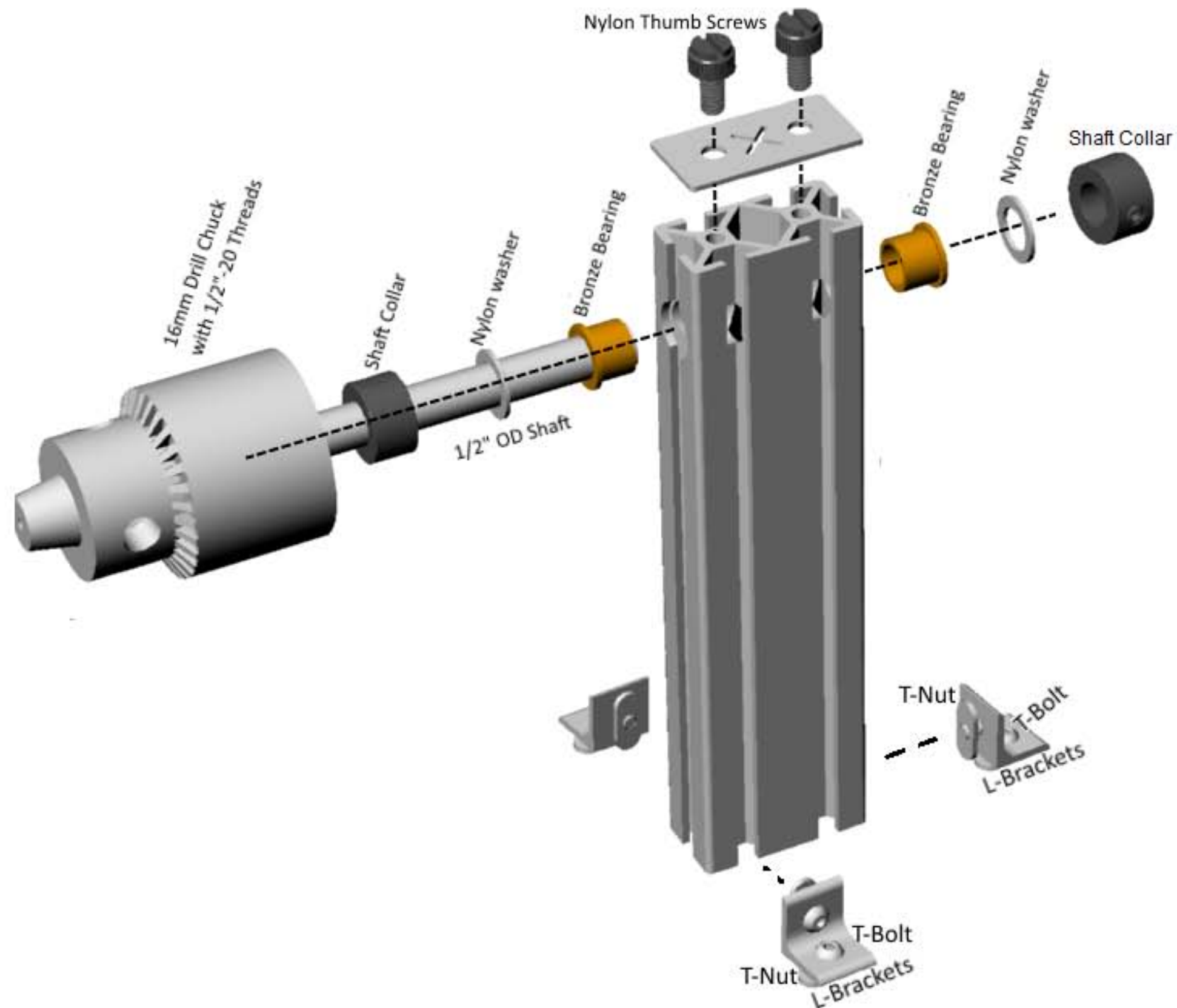


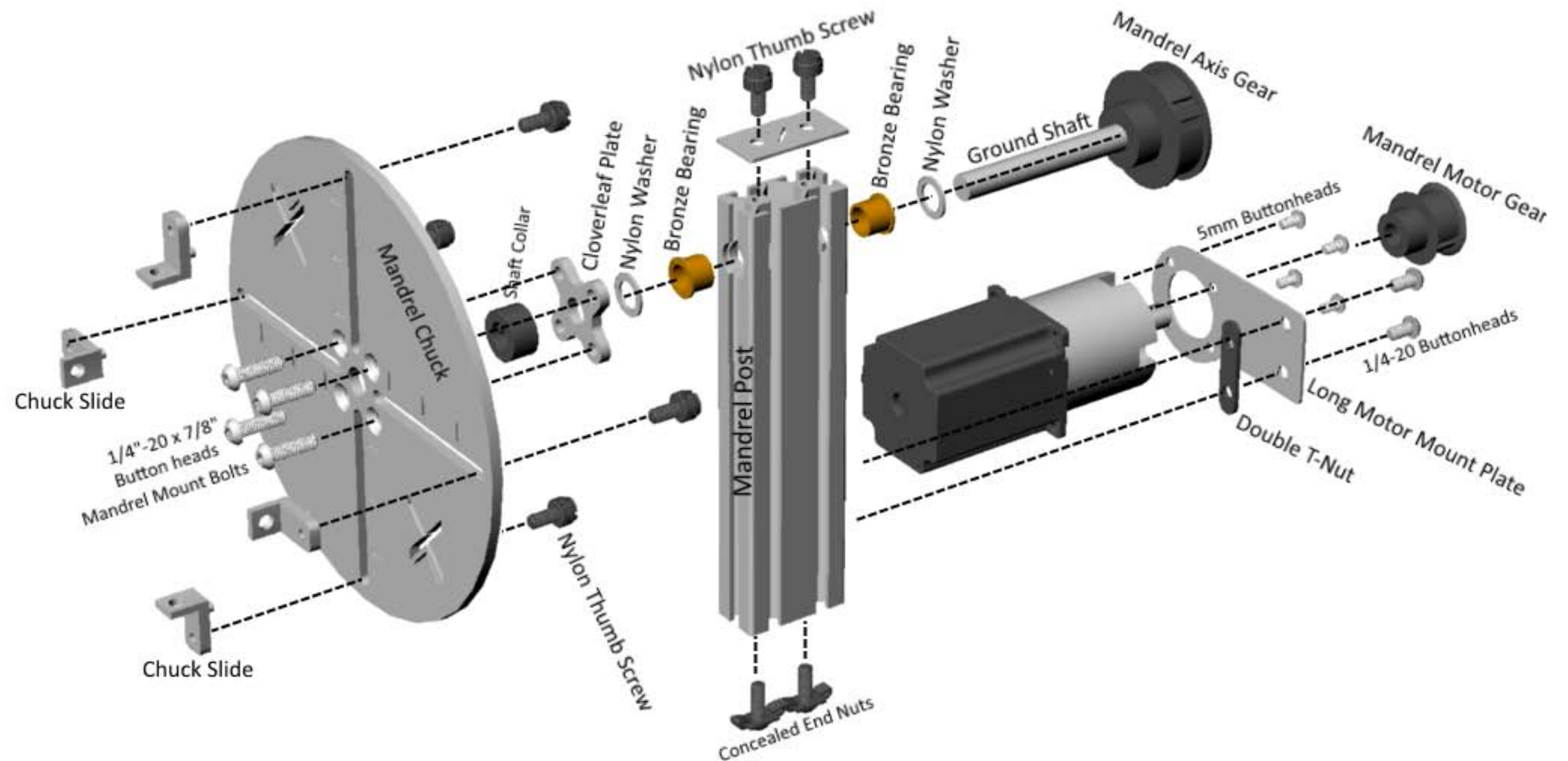


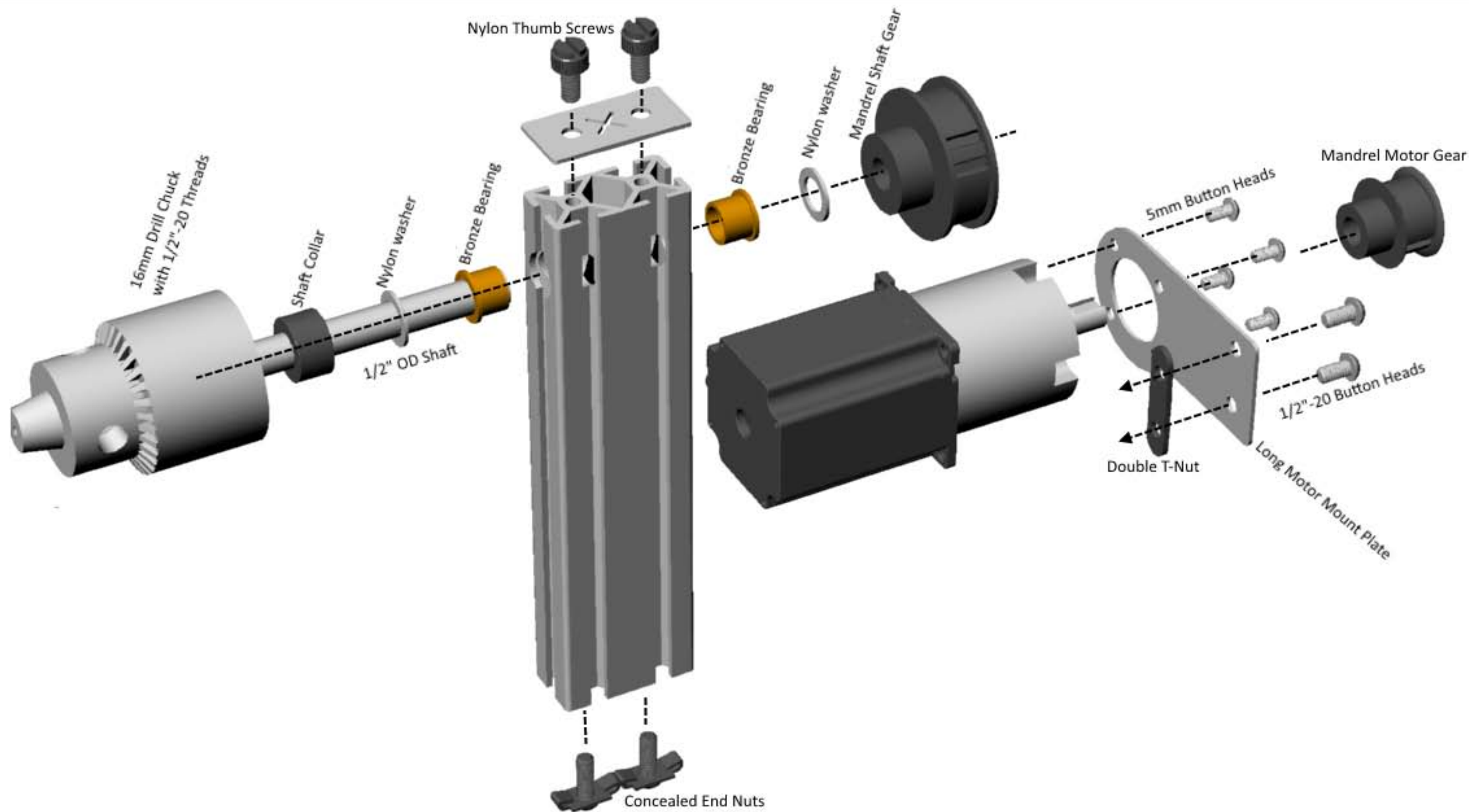


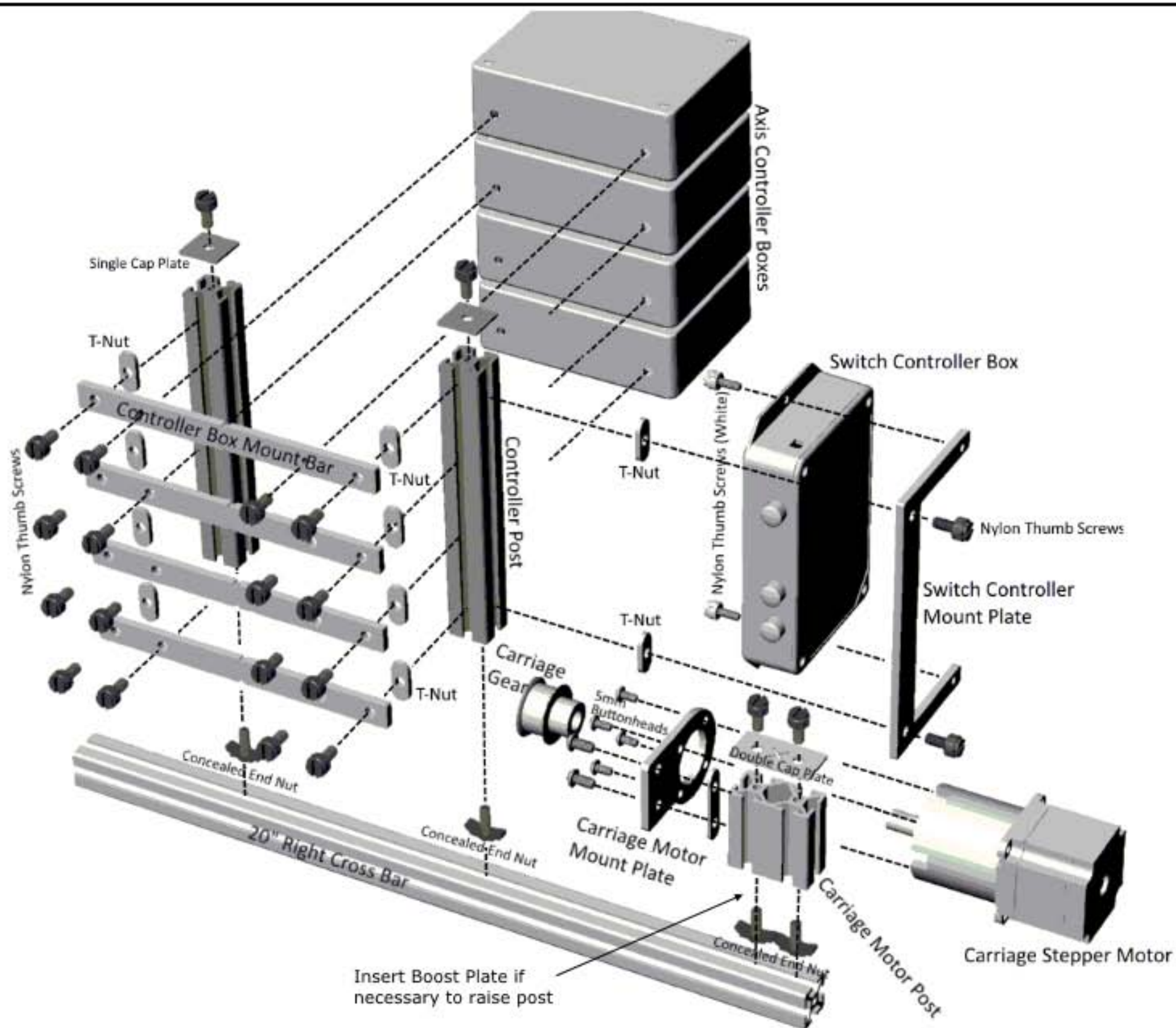


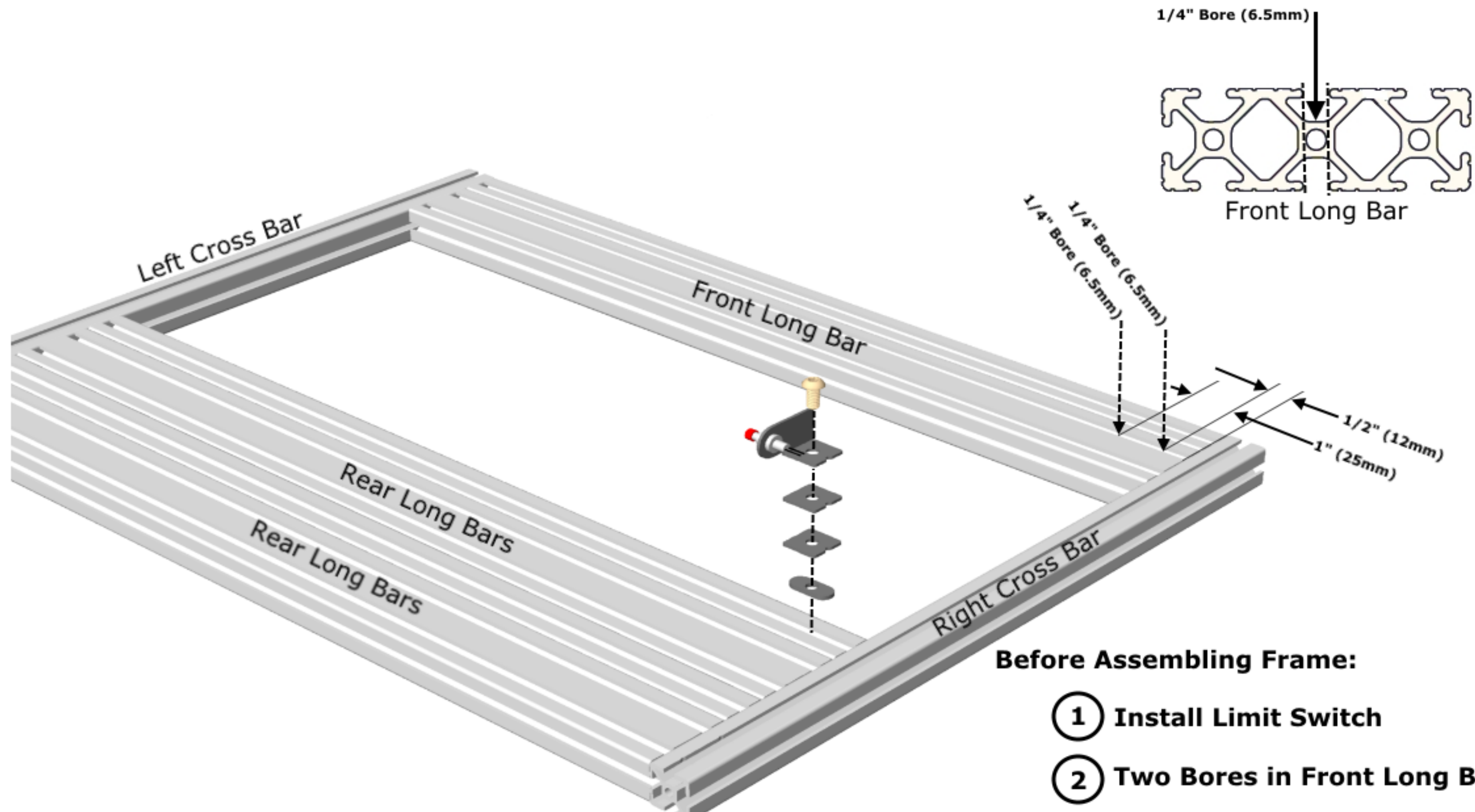


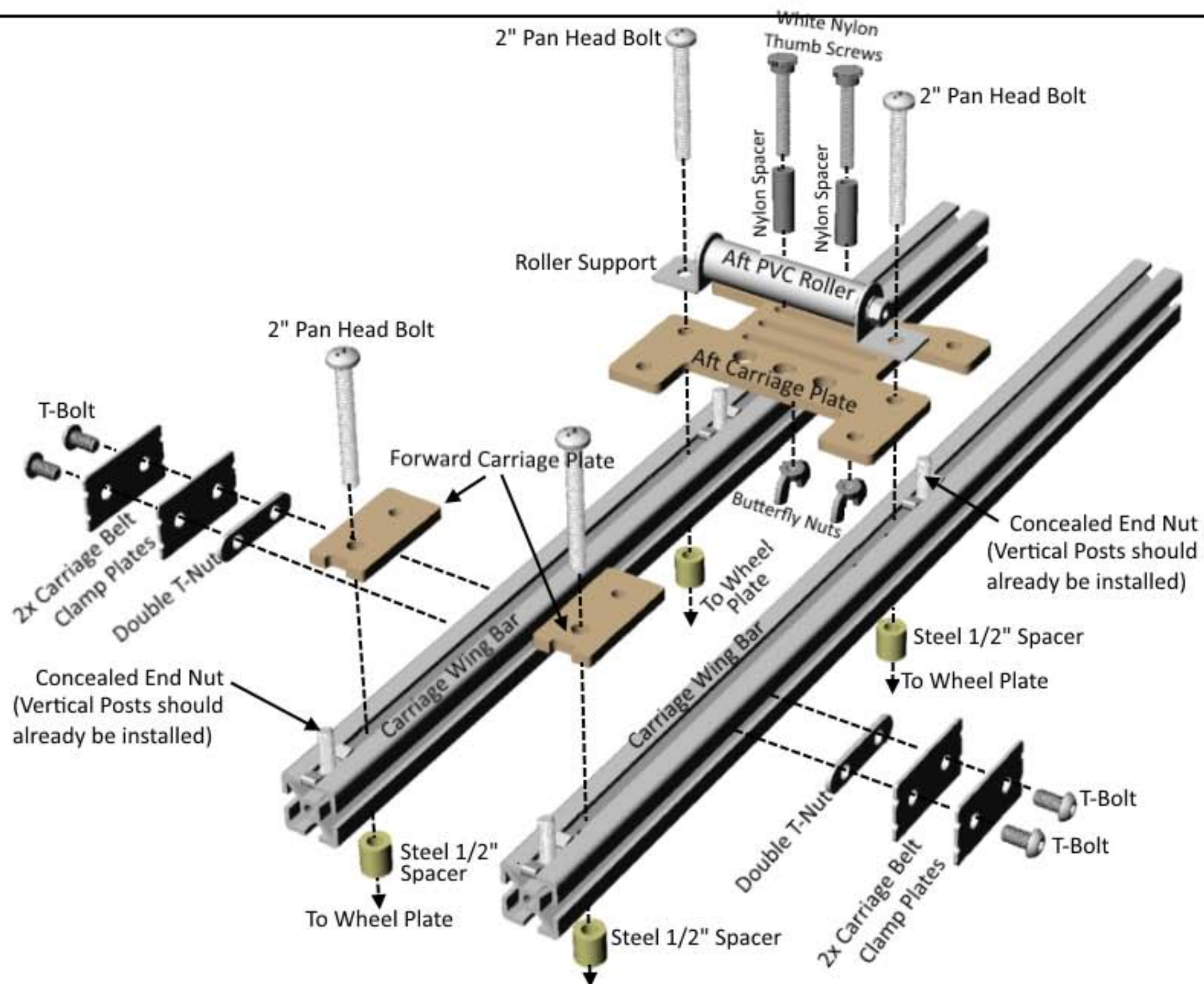


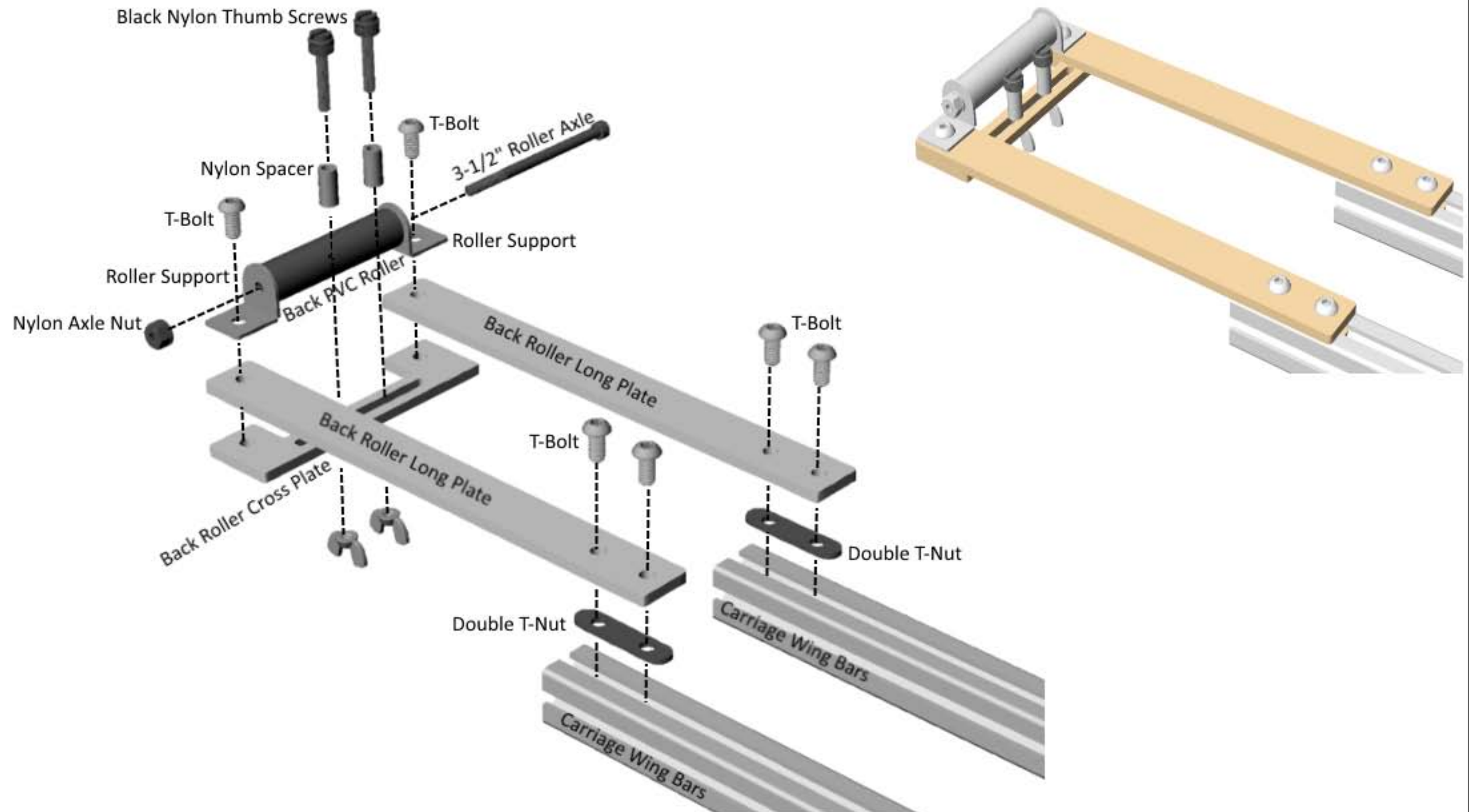










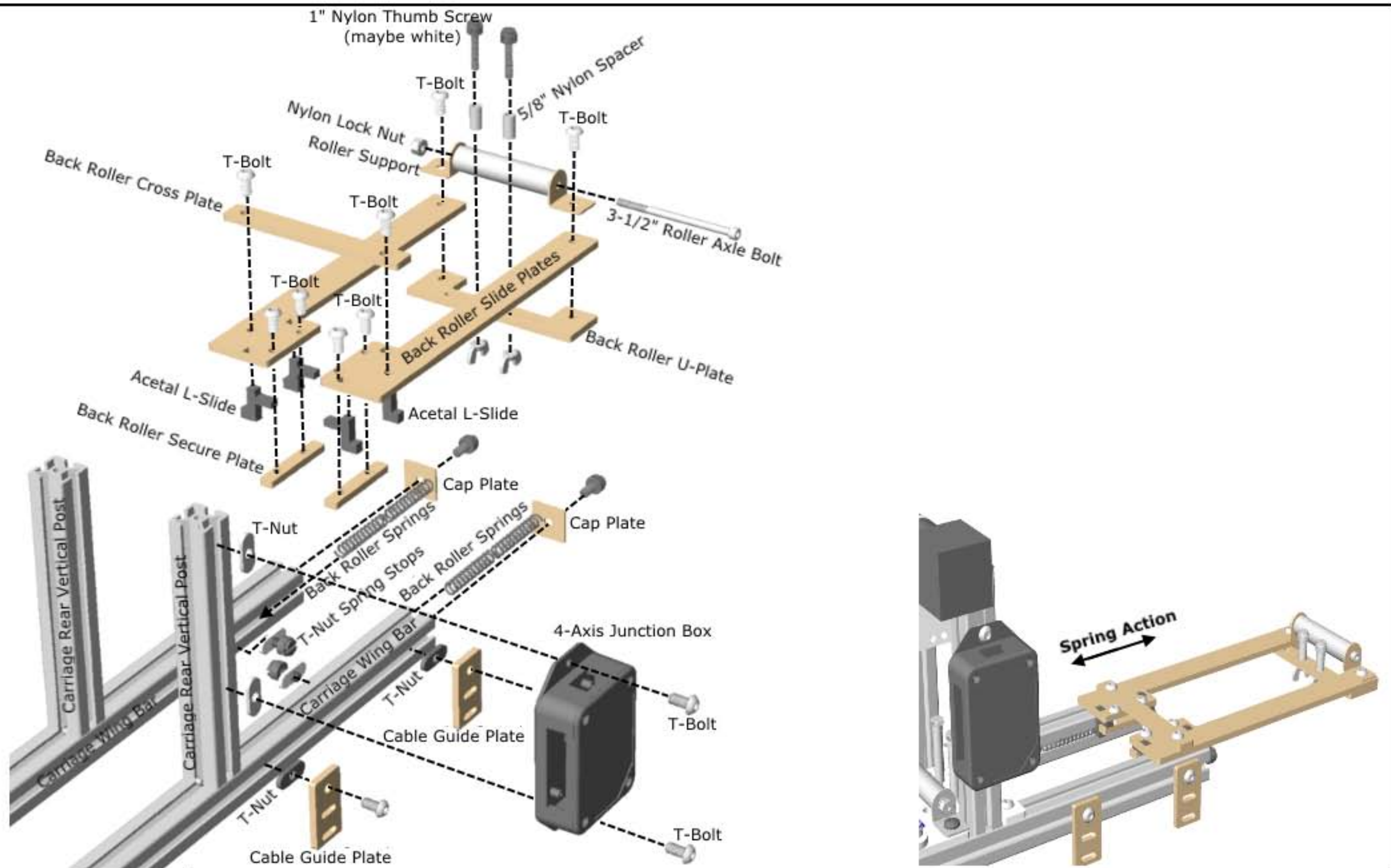


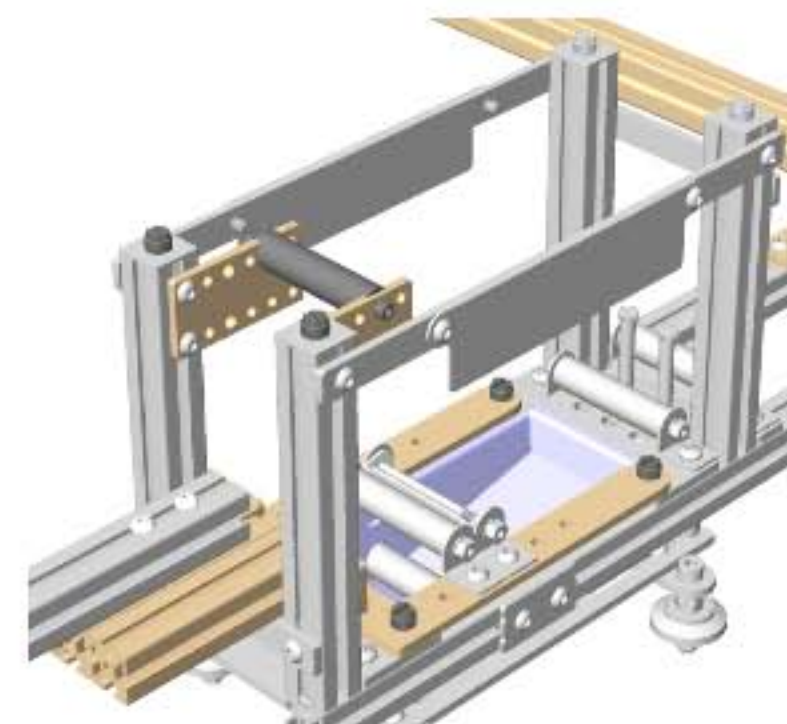
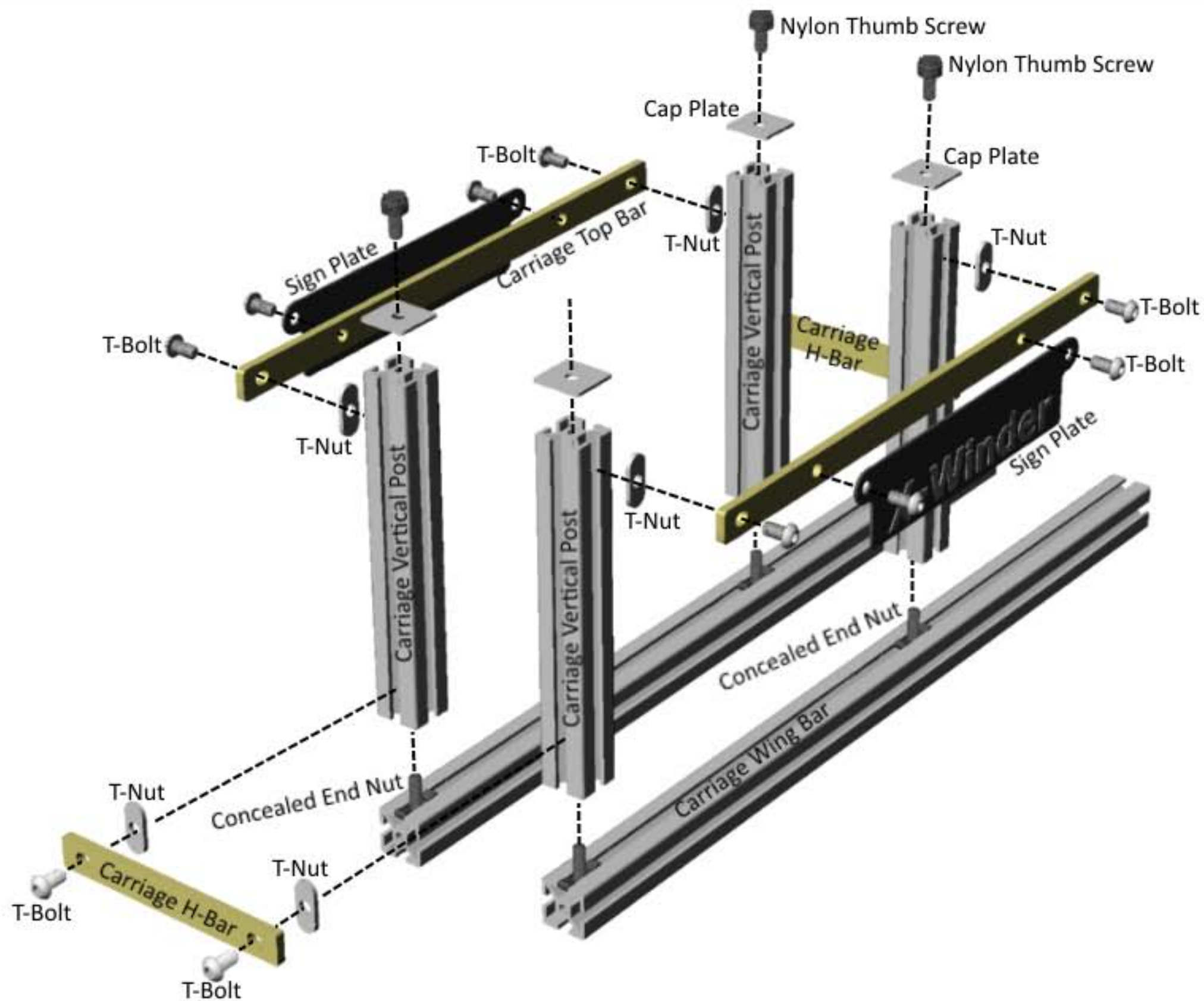
Roller Holder is
reverse mounted

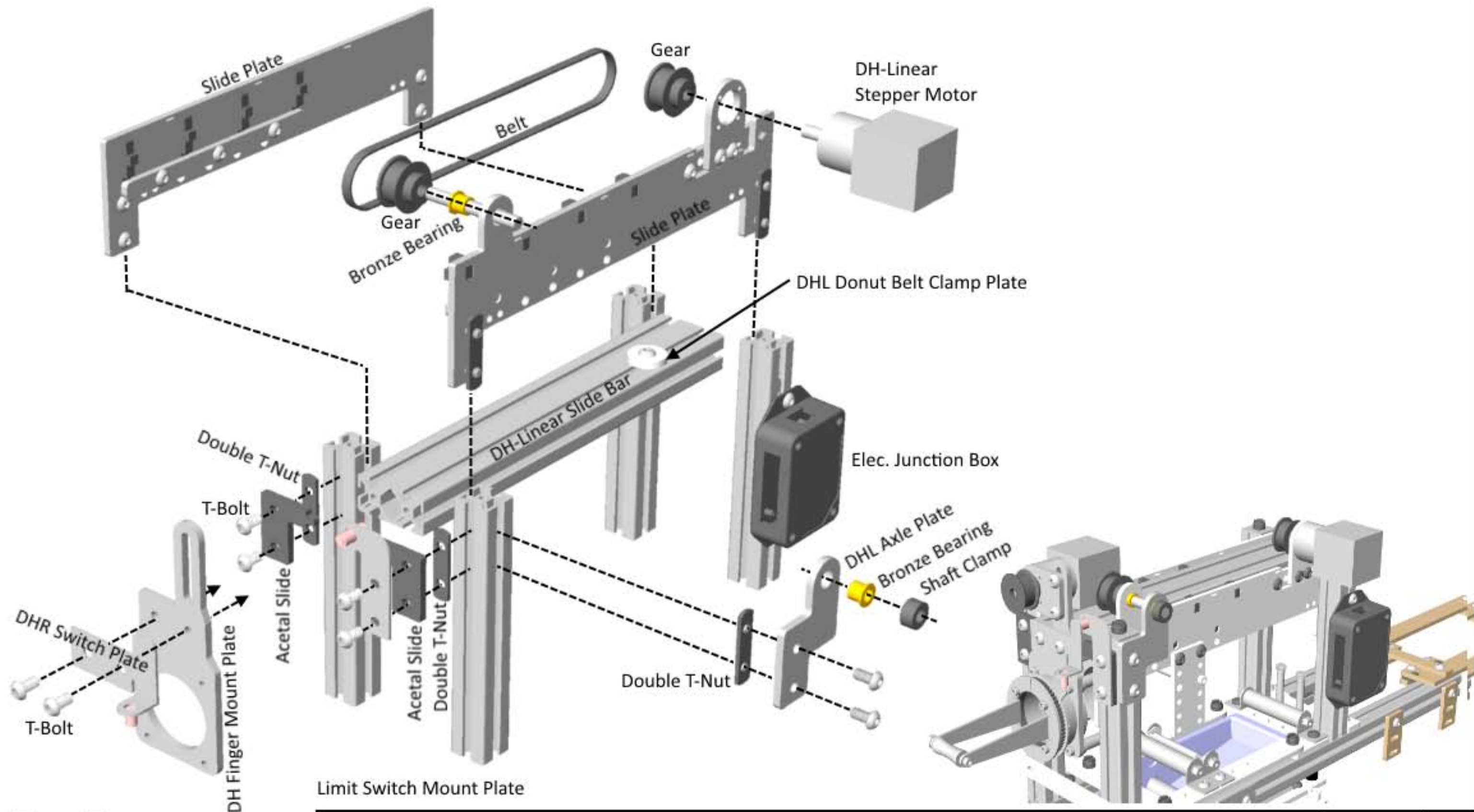
Threaded Rod

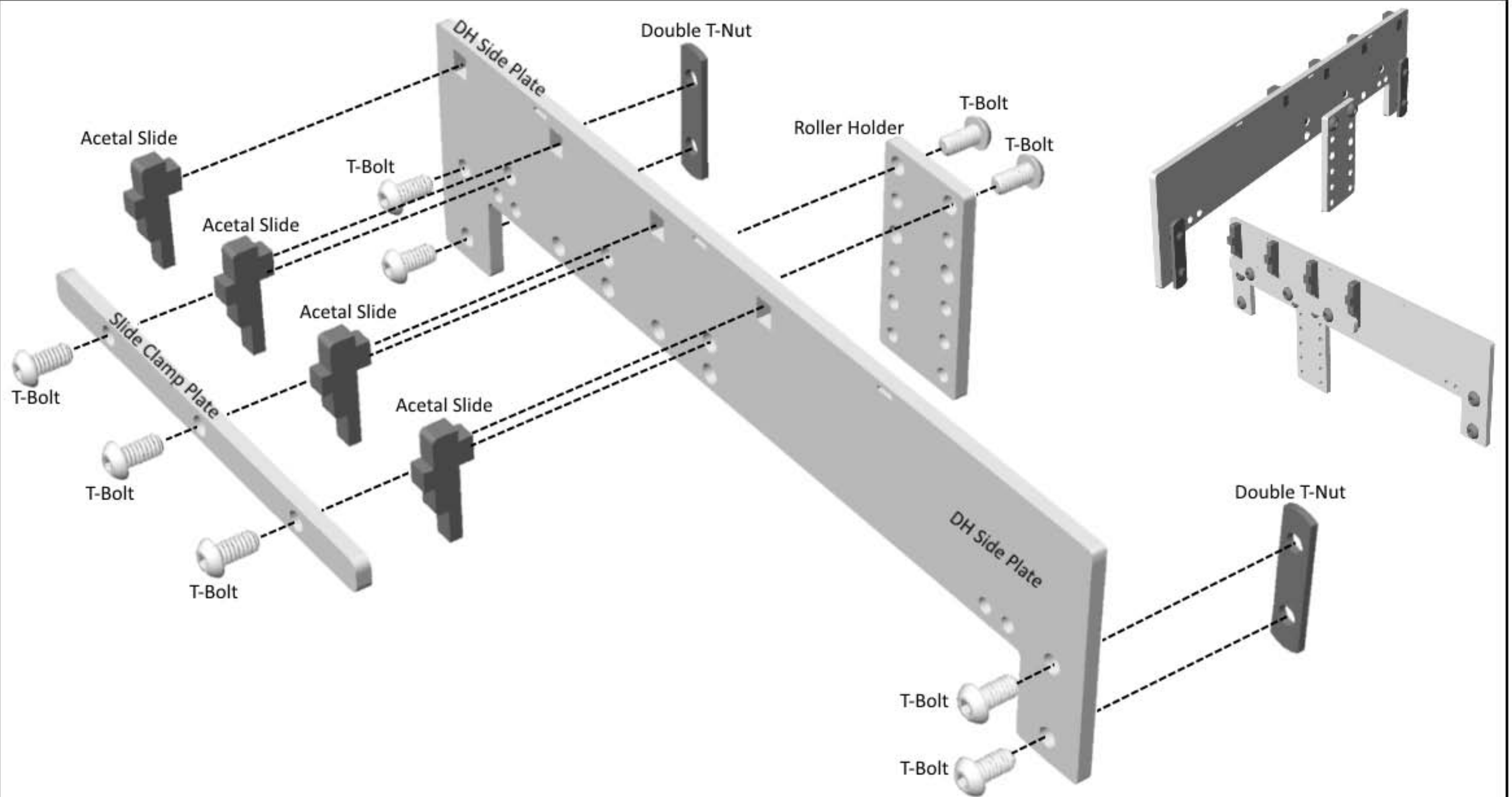
Dual Back Roller

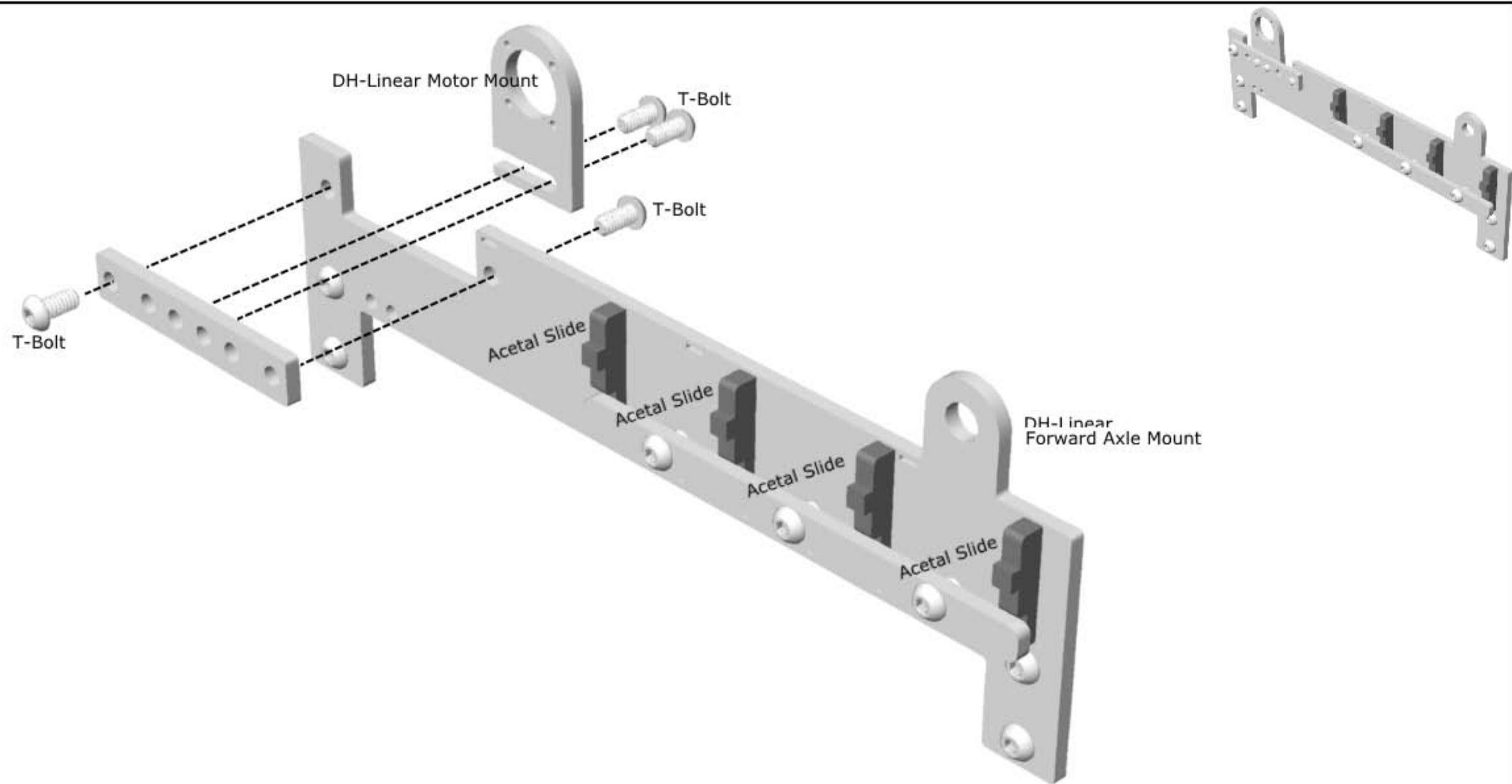
(if with dual reel holder kit)

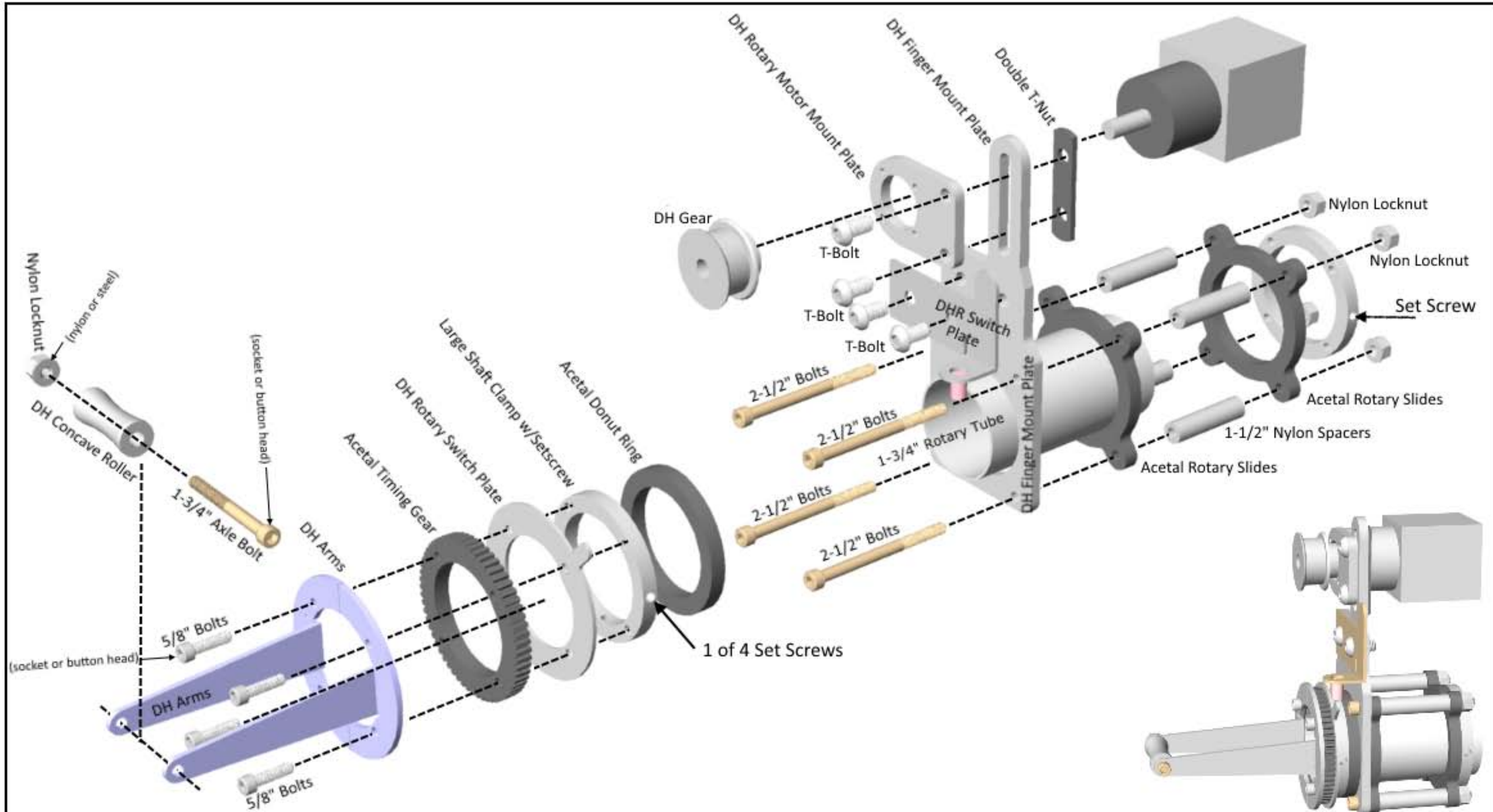












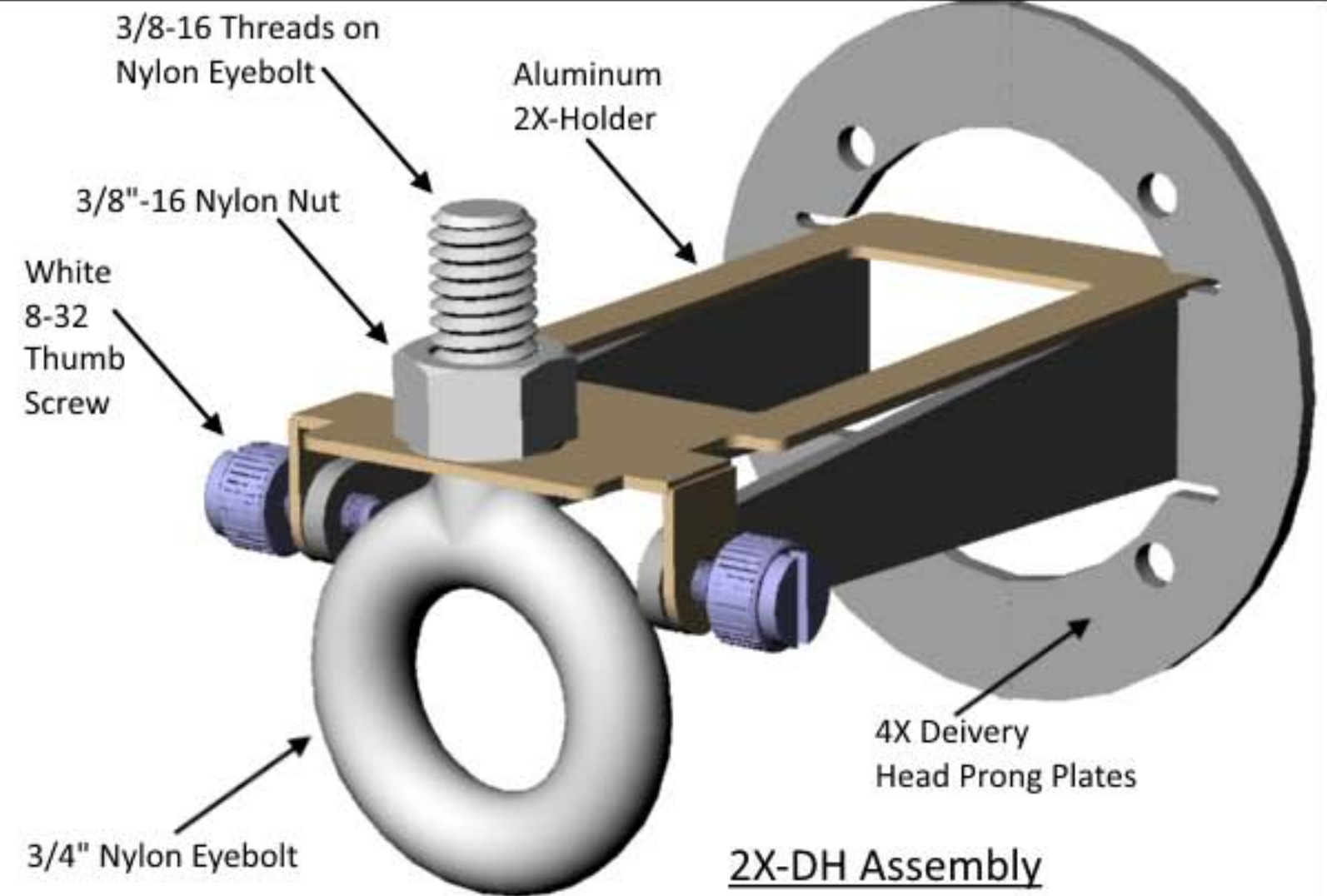
Delivery Head (4-Axis)

3/15

JTH

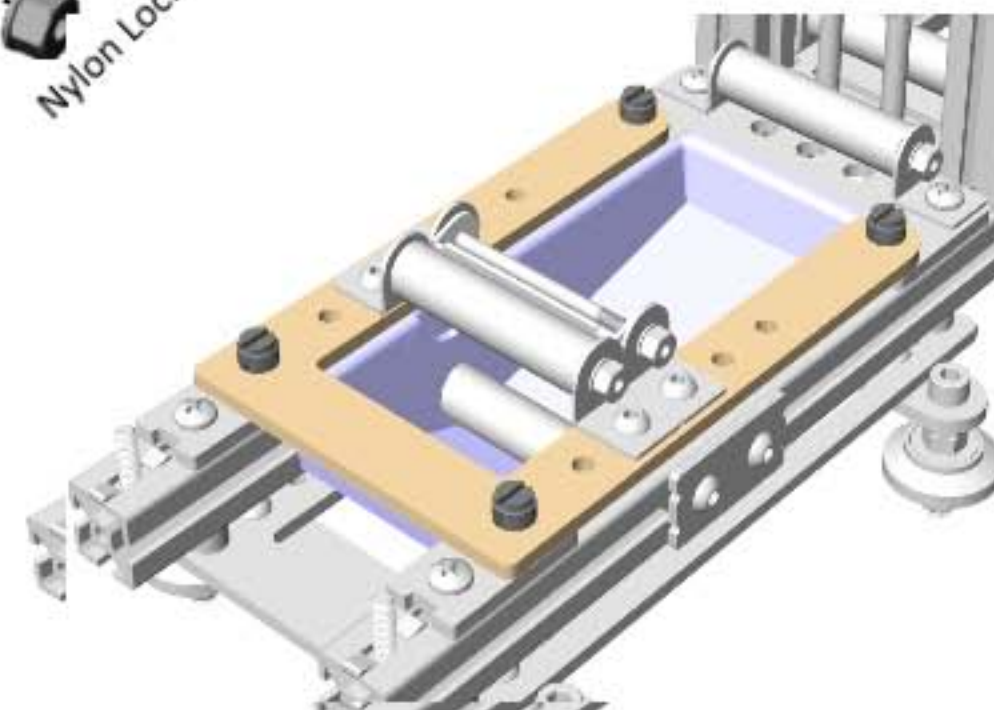
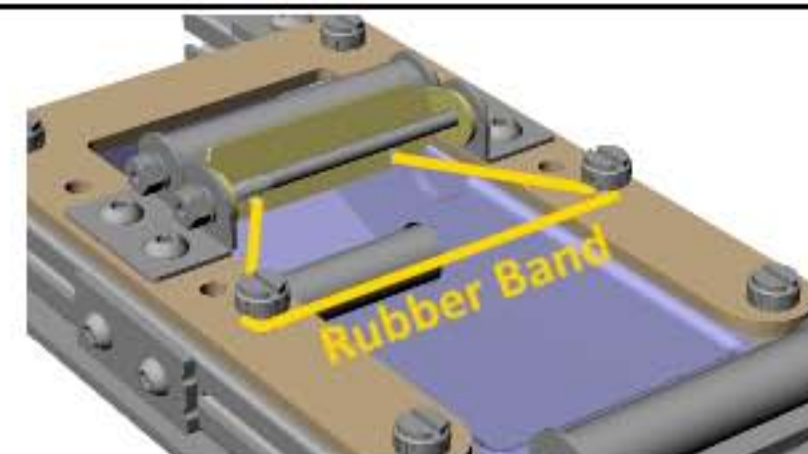
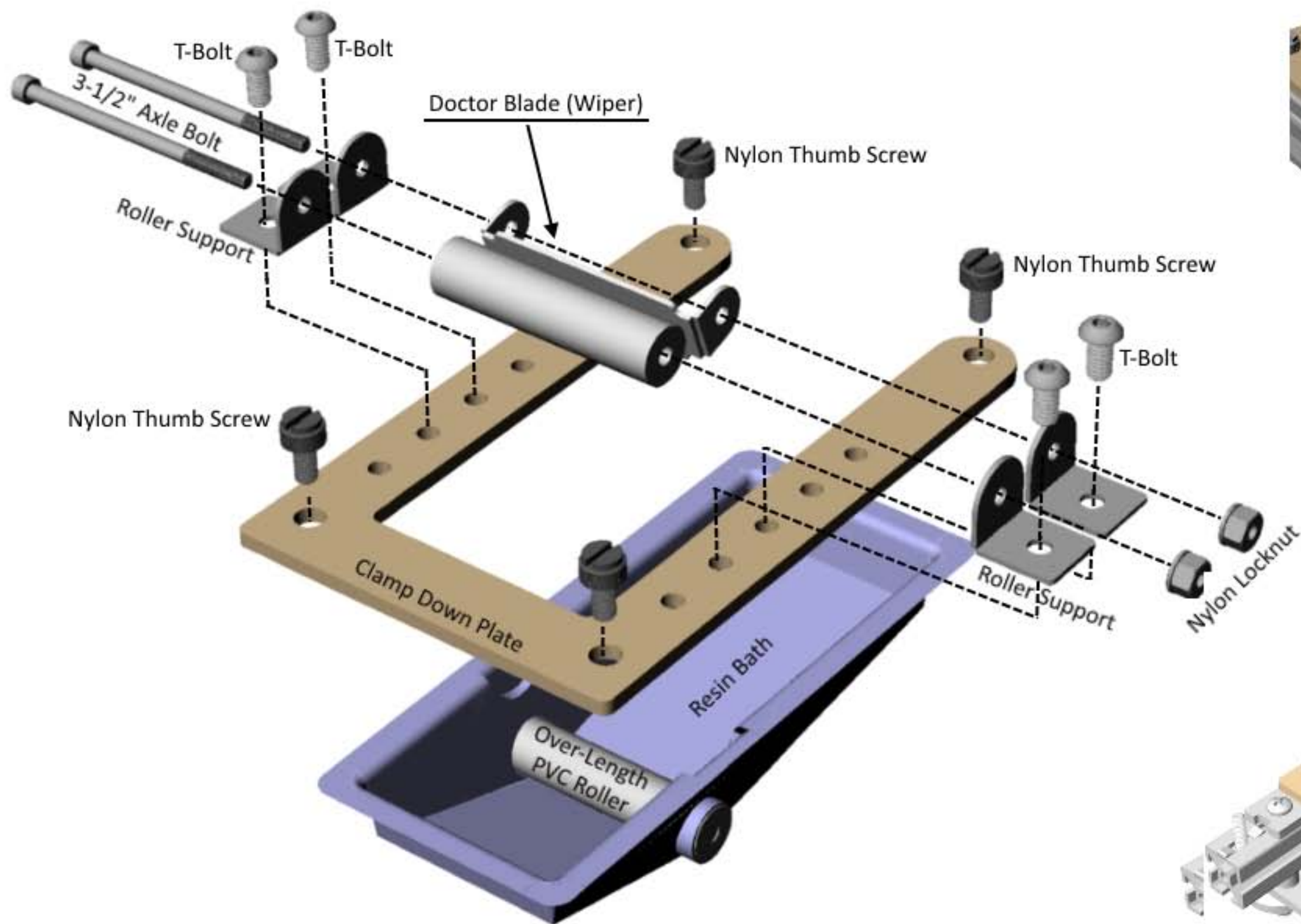


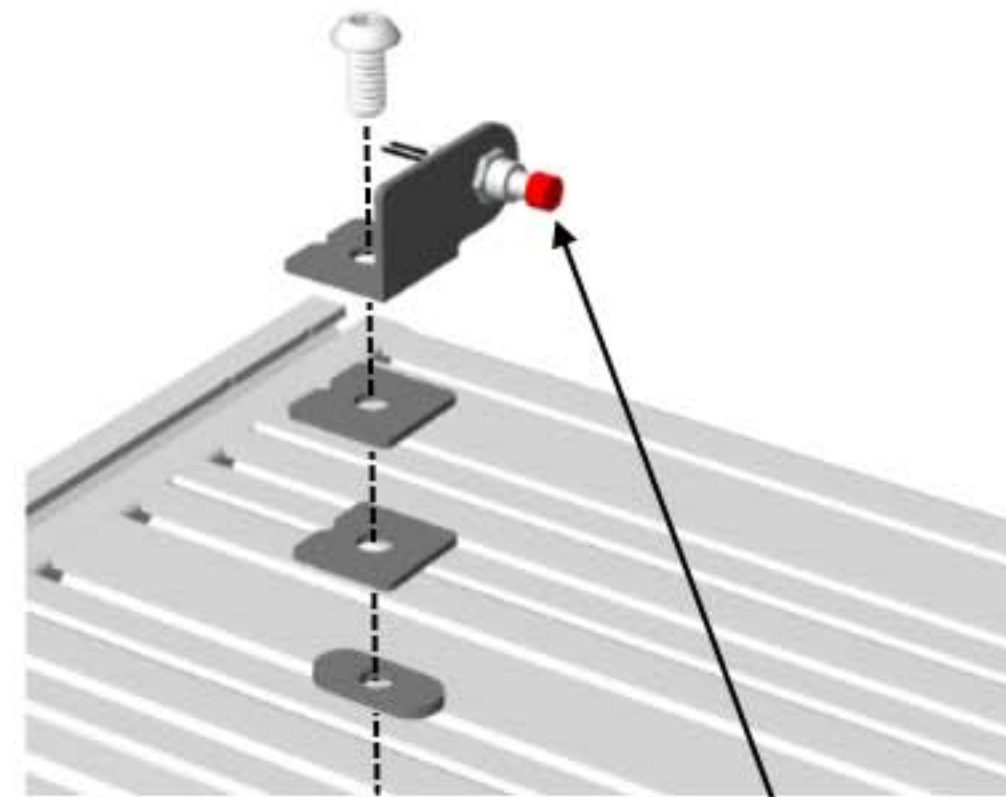
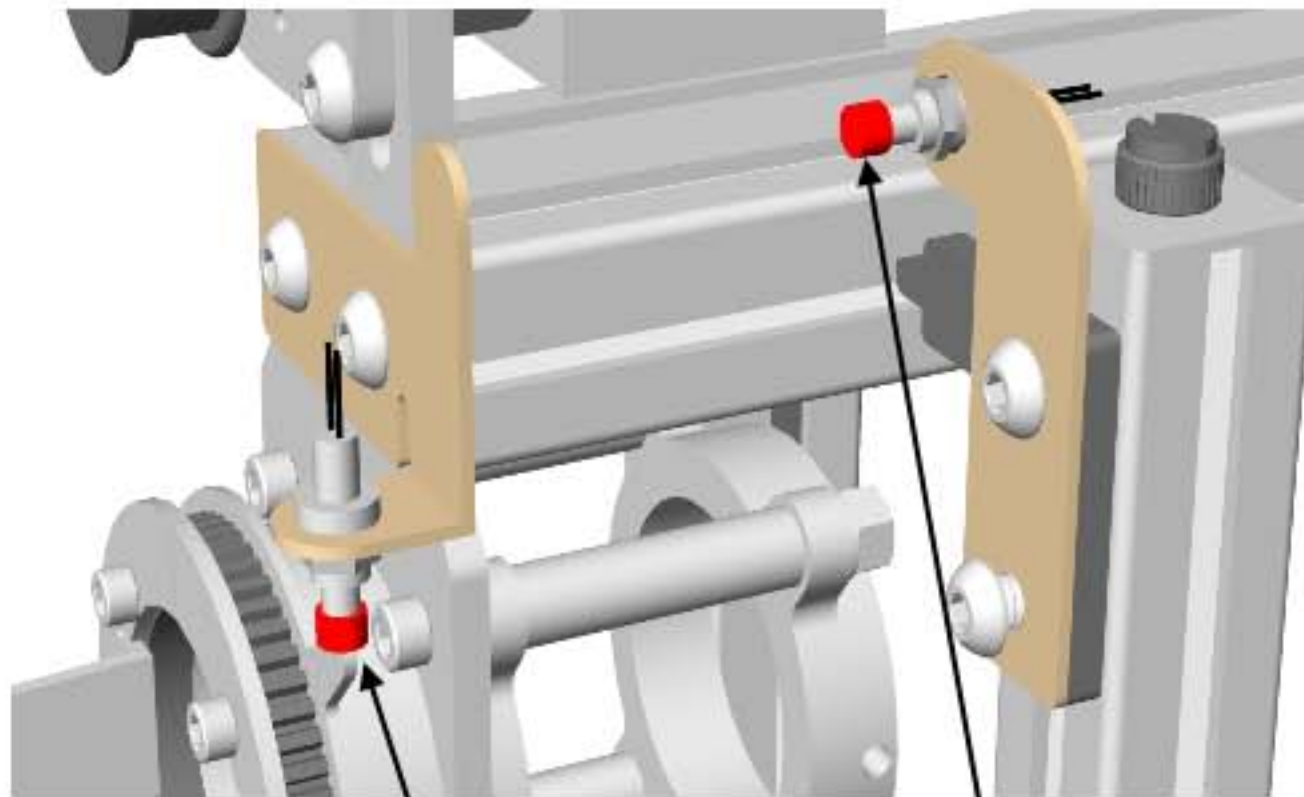
Assembled Photograph



Steps:

- Remove Concave Roller from 4X Winder and replace with 2X-DH as shown
- Before Applying Power to Motors, Move DH in Position near Mandrel
- Use the Designer and Executor to perform a 2X Winding





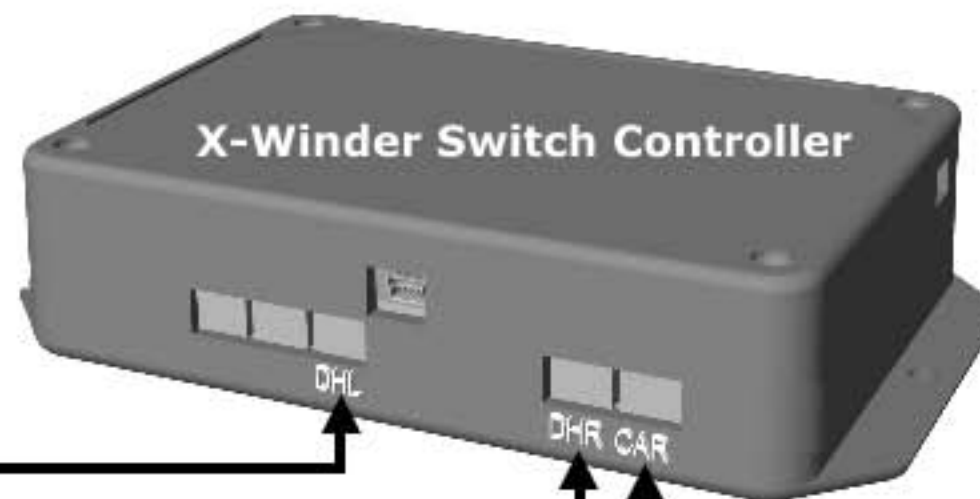
DHR: DH Rotary Limit Switch

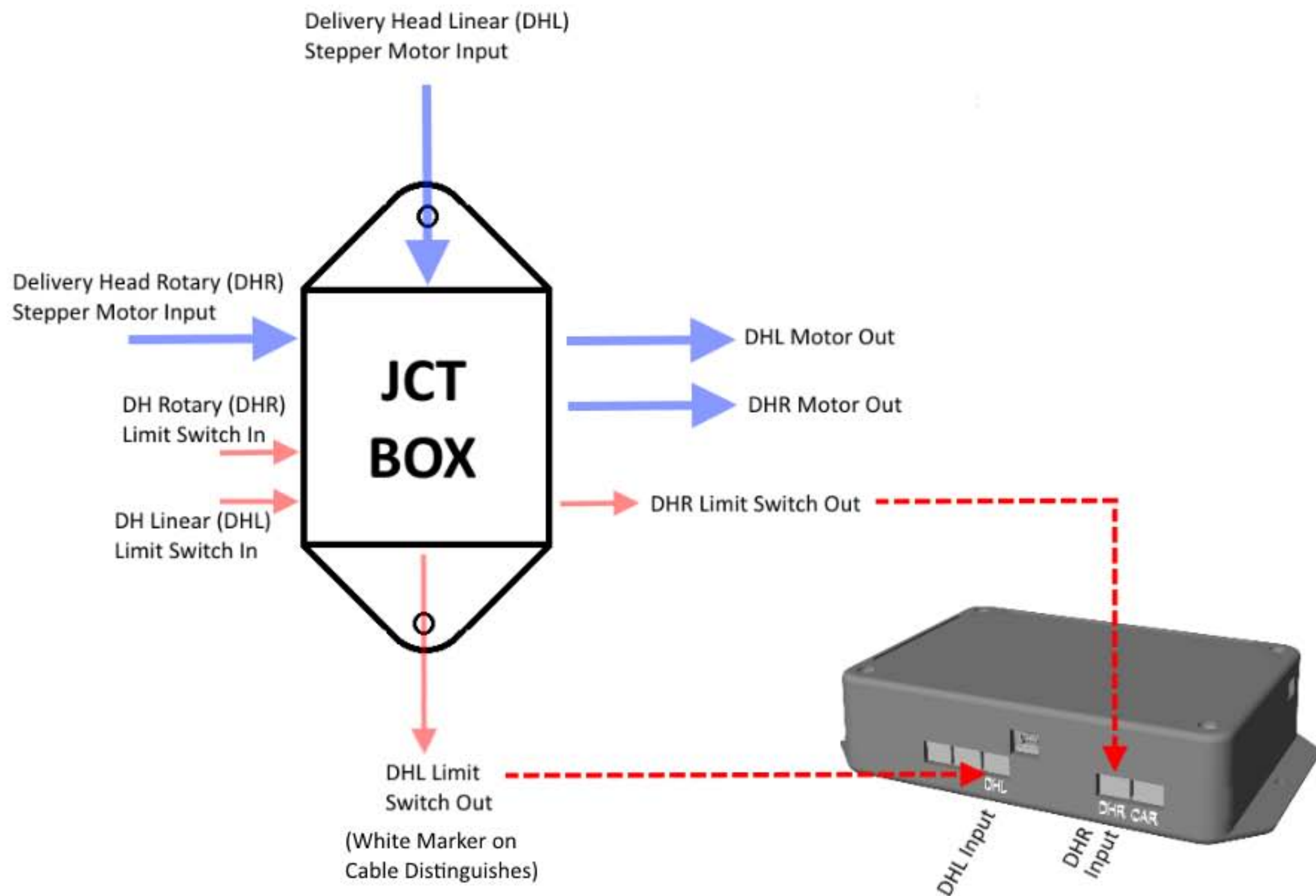
DHL: DH Linear Limit Switch

CAR: Carriage Limit Switch

JCT
BOX

JCT
BOX





Mandrel Stepper



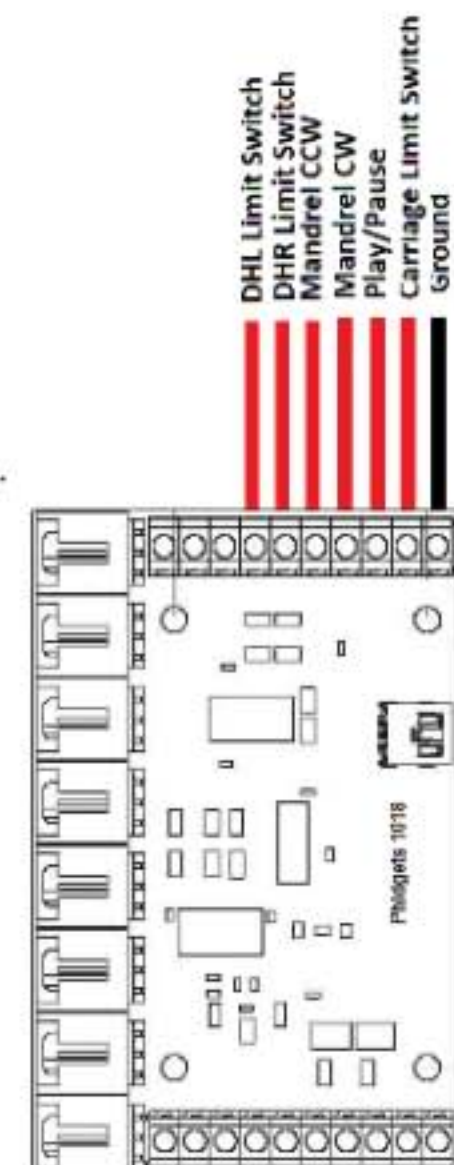
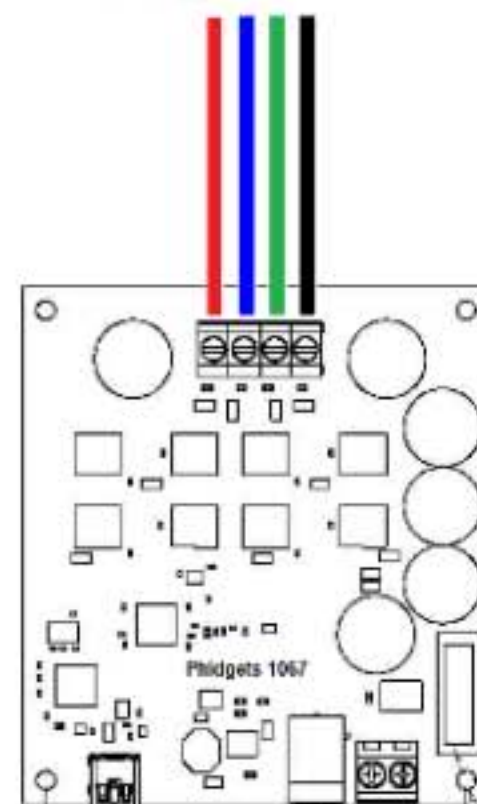
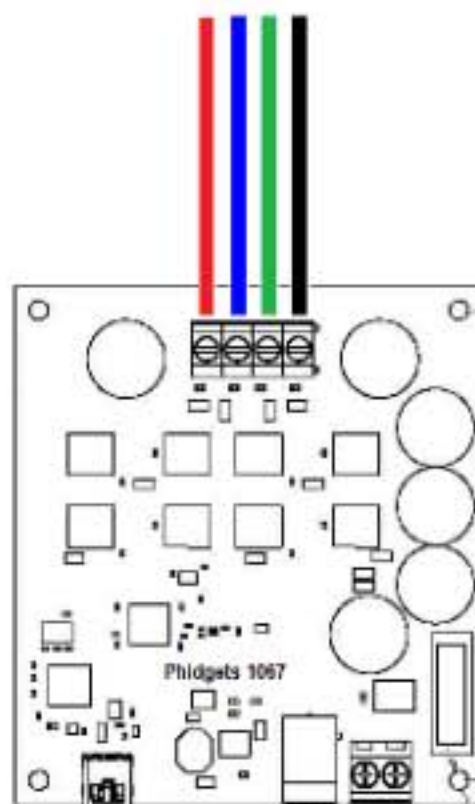
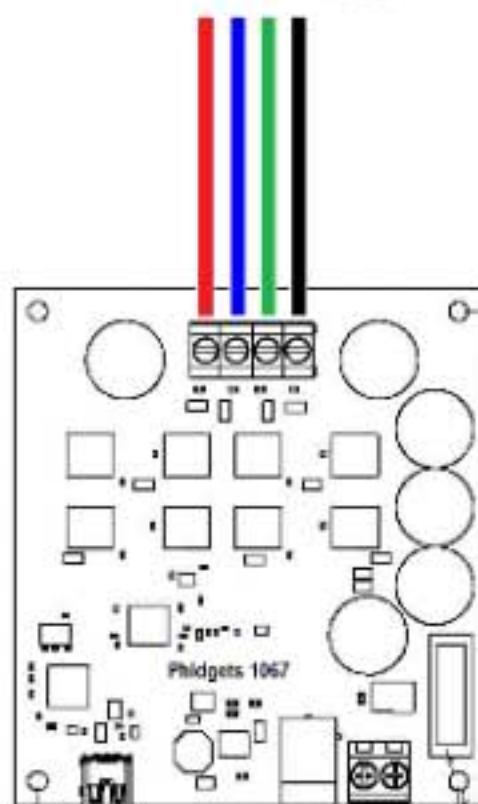
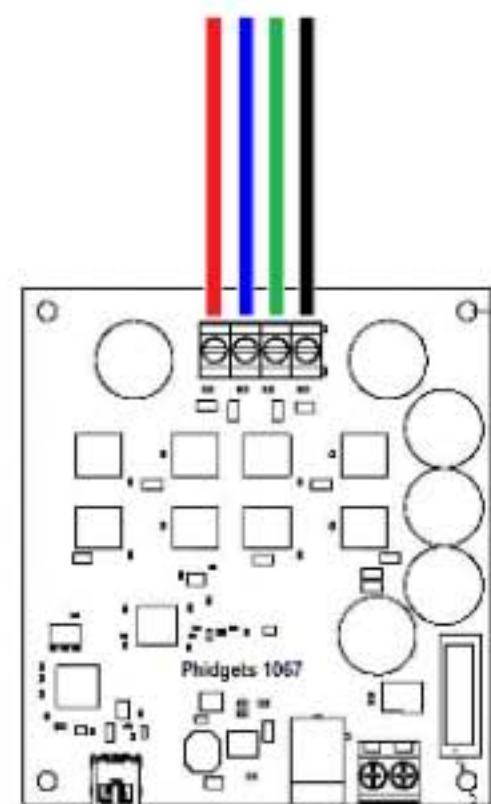
Carriage Stepper



DH-Rotary Stepper



DH-Linear Stepper



USB

USB

PC

24V / 3A



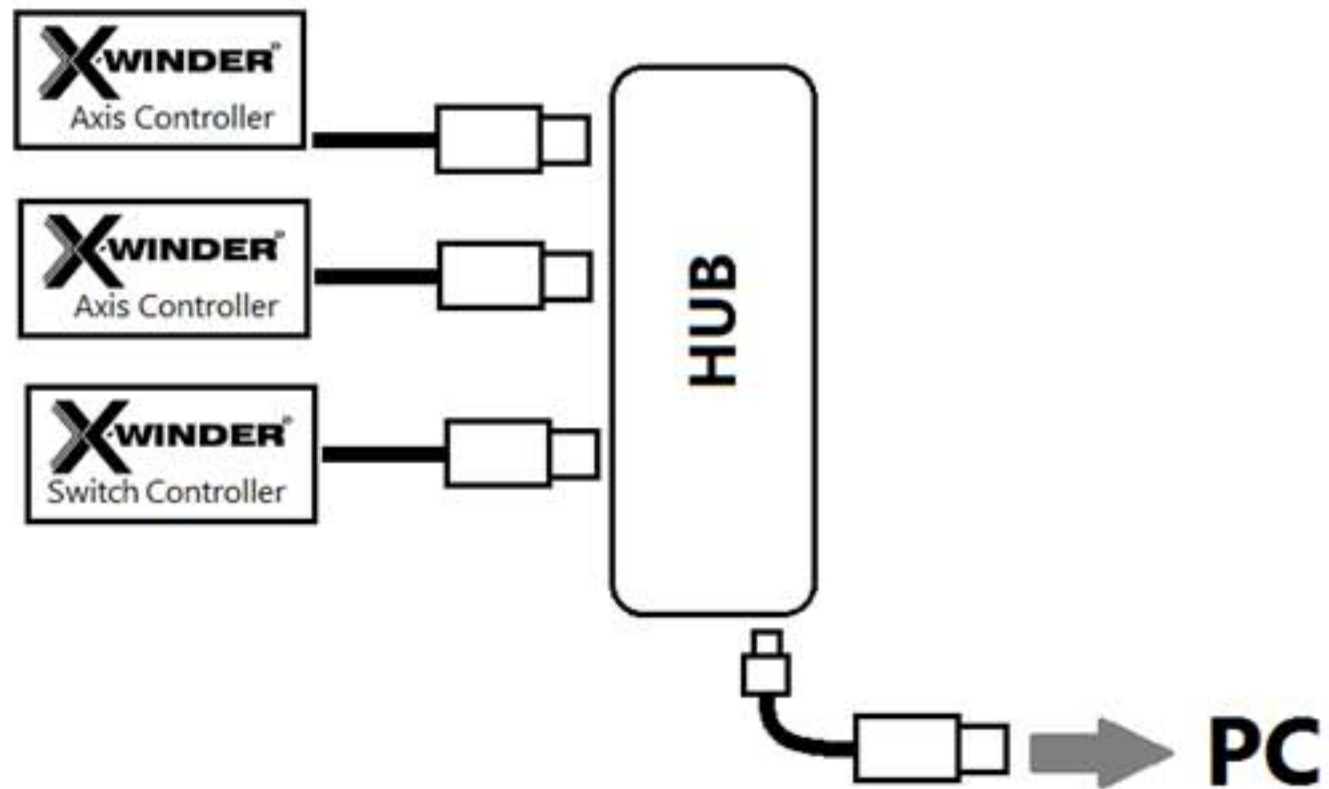
The Original Desktop Filament Winder

Wiring Diagram

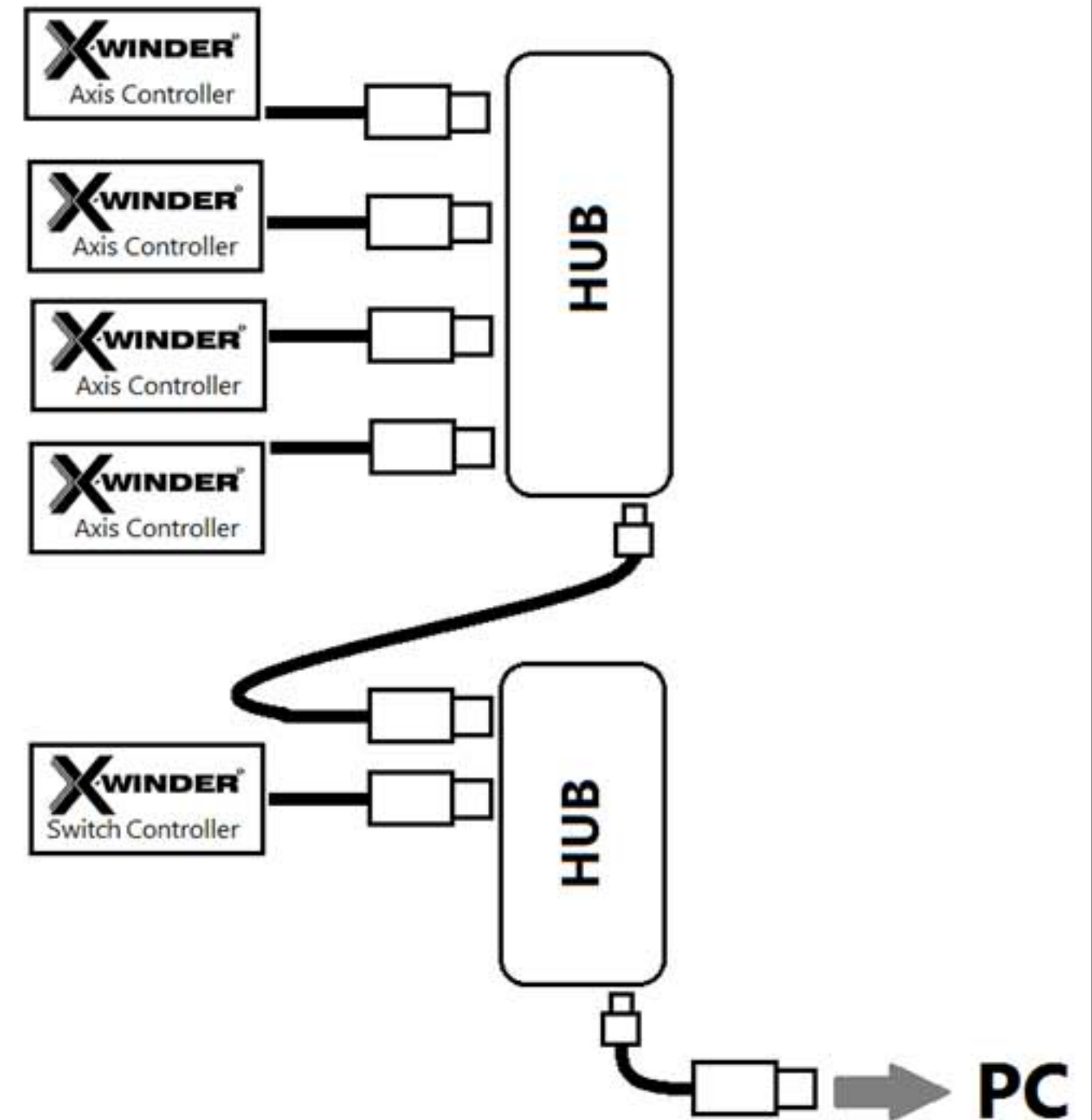
3/15

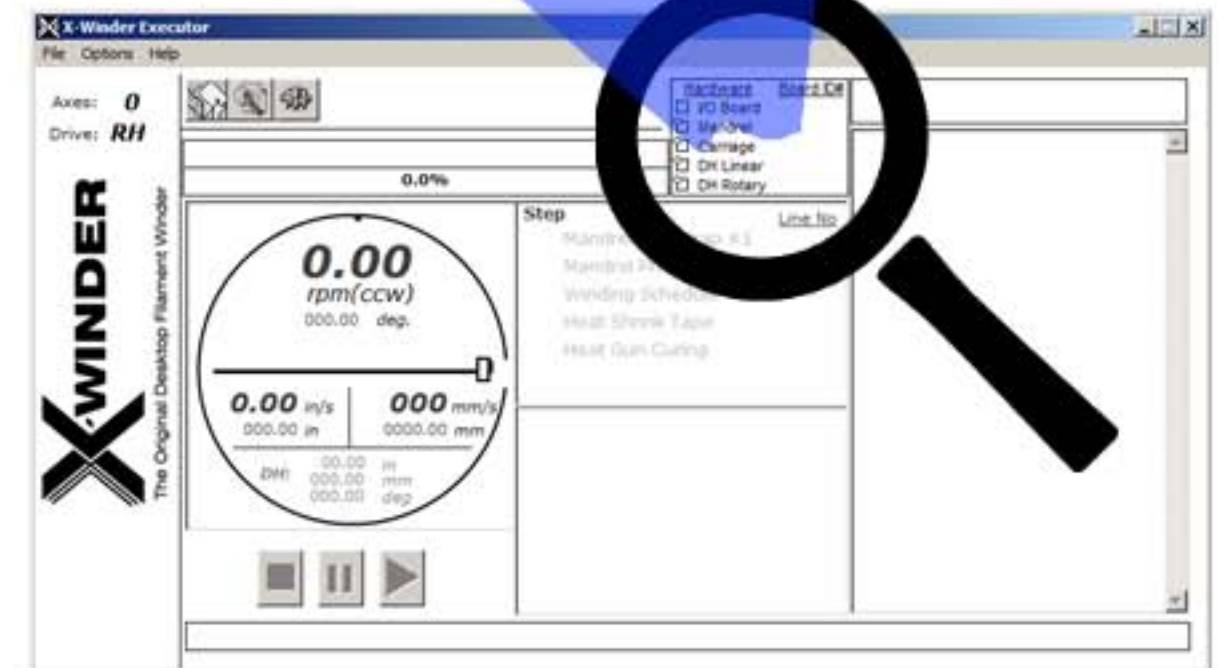
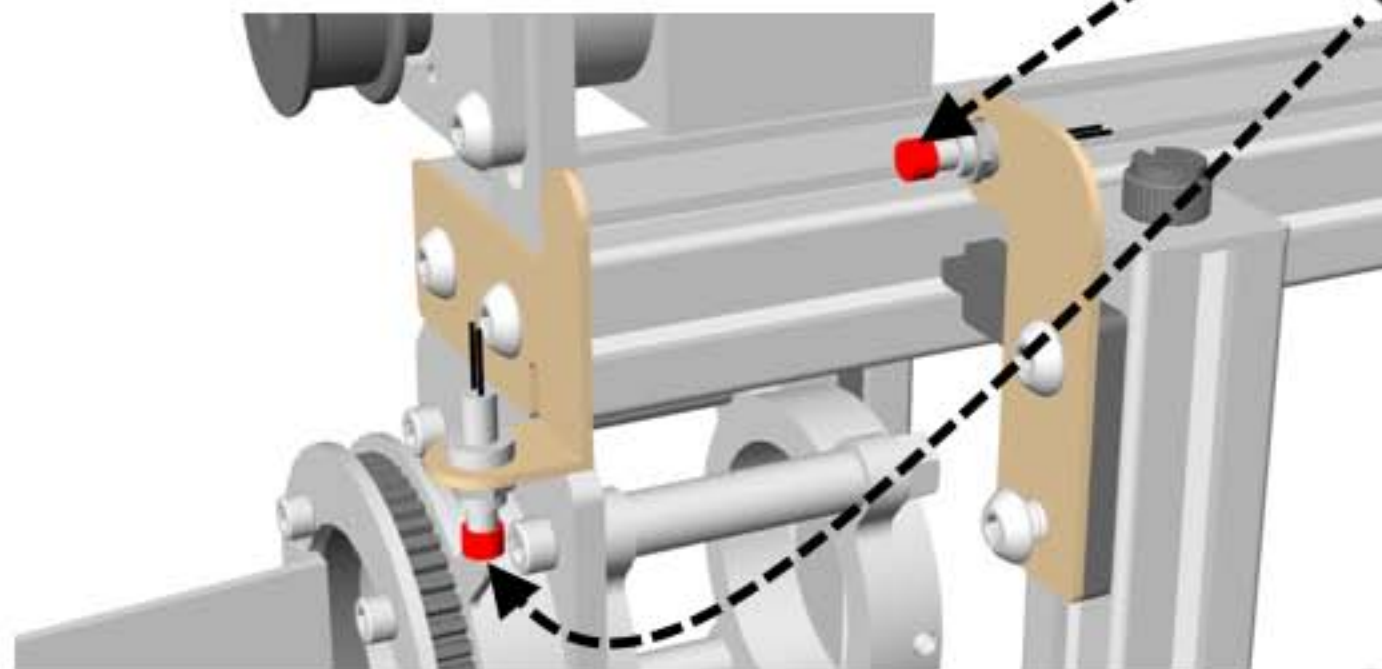
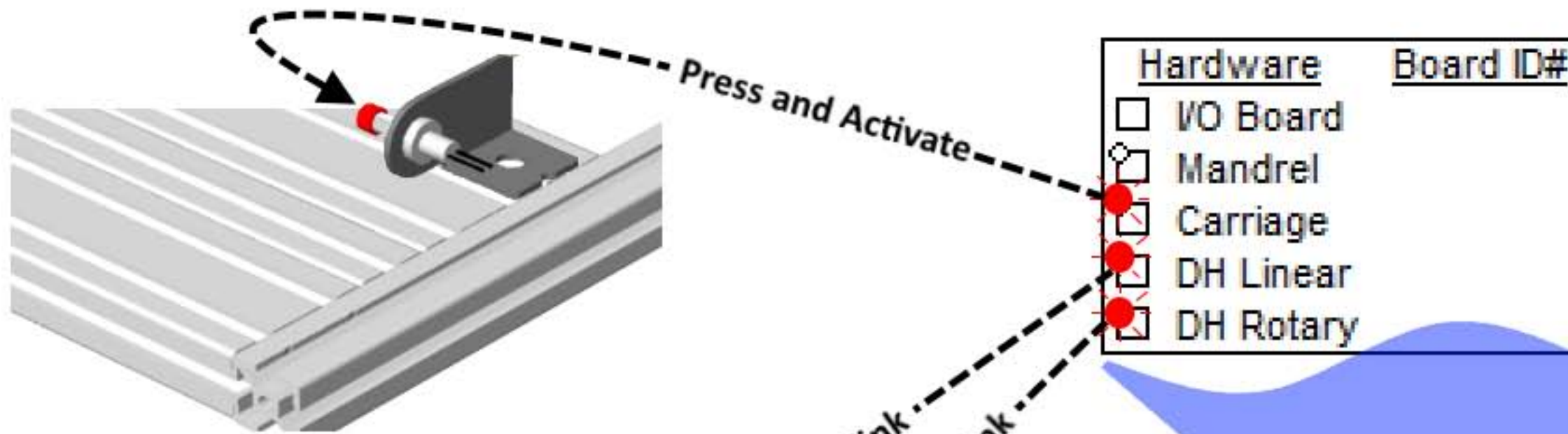
JTH

2-Axis USB Connection



4-Axis USB Connection





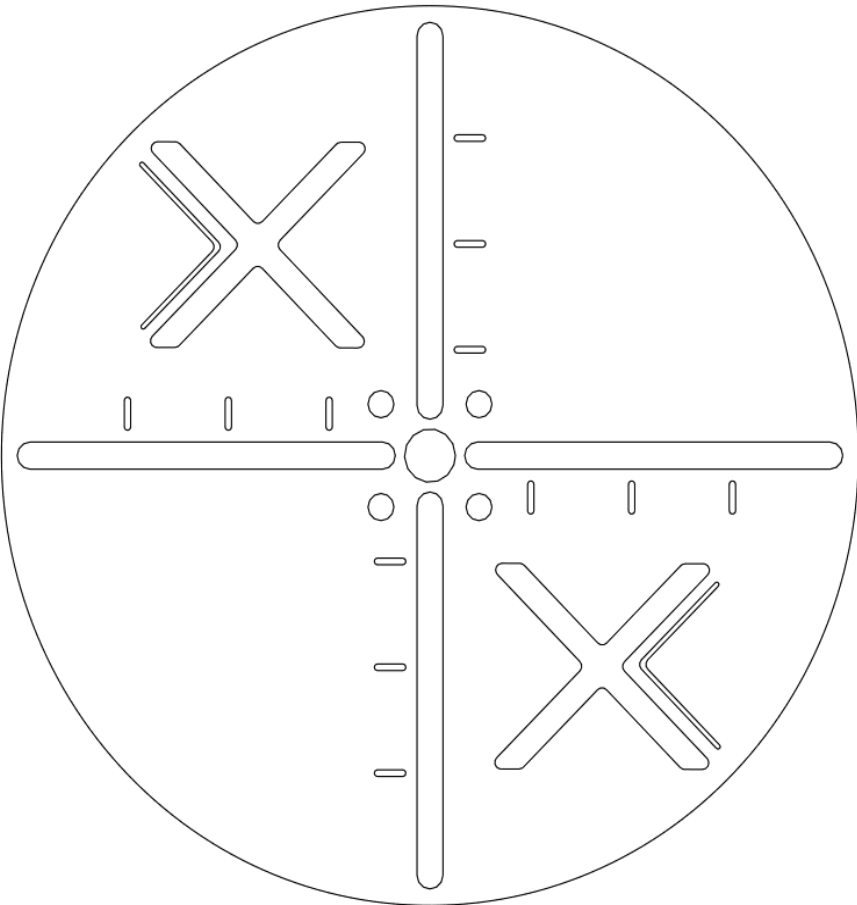
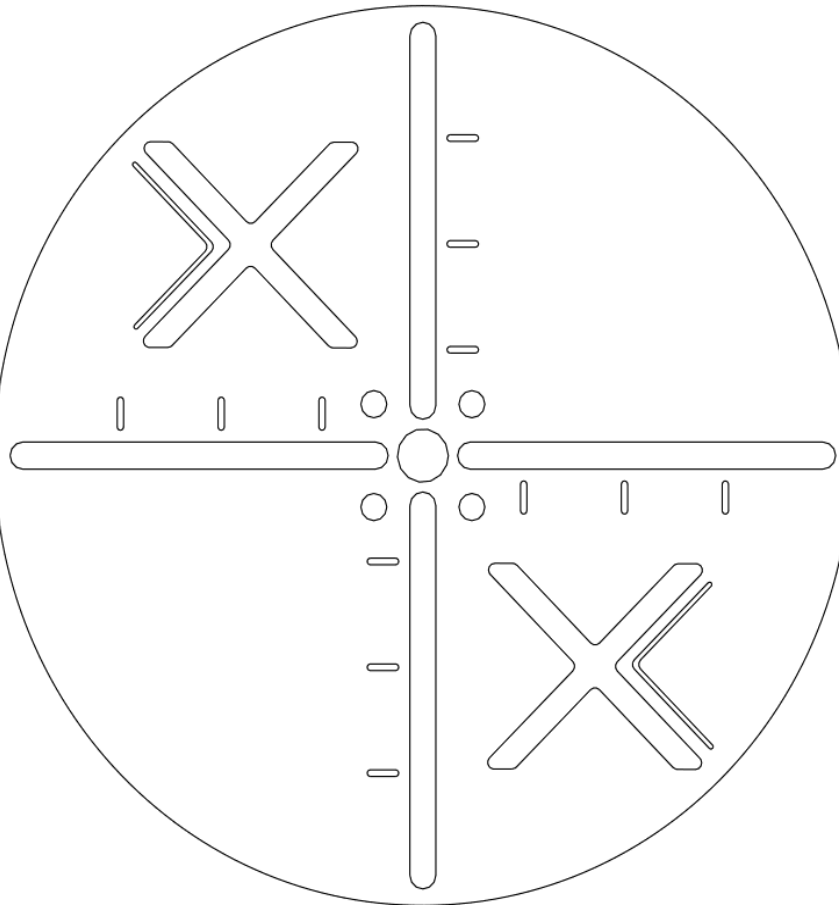
Verify Limit Switch Operation

Press Limit Switch and Red Indicator Light Should Blink to Verify Operation

Aluminum & Acetal Flat Plate Parts

- Chuck Plates
- 1/16" Common Parts
- 3/16" Carriage Parts
- 3/16" Frame Parts
- 3/16" Wheel Plate Parts
- 2-Axis 1/16" Parts
- 2-Axis 3/16" Parts
- 4-Axis 1/16" Parts
- 4-Axis 3/16" Parts
- Black Acetal Slides
- Delivery Head (DH) Arms

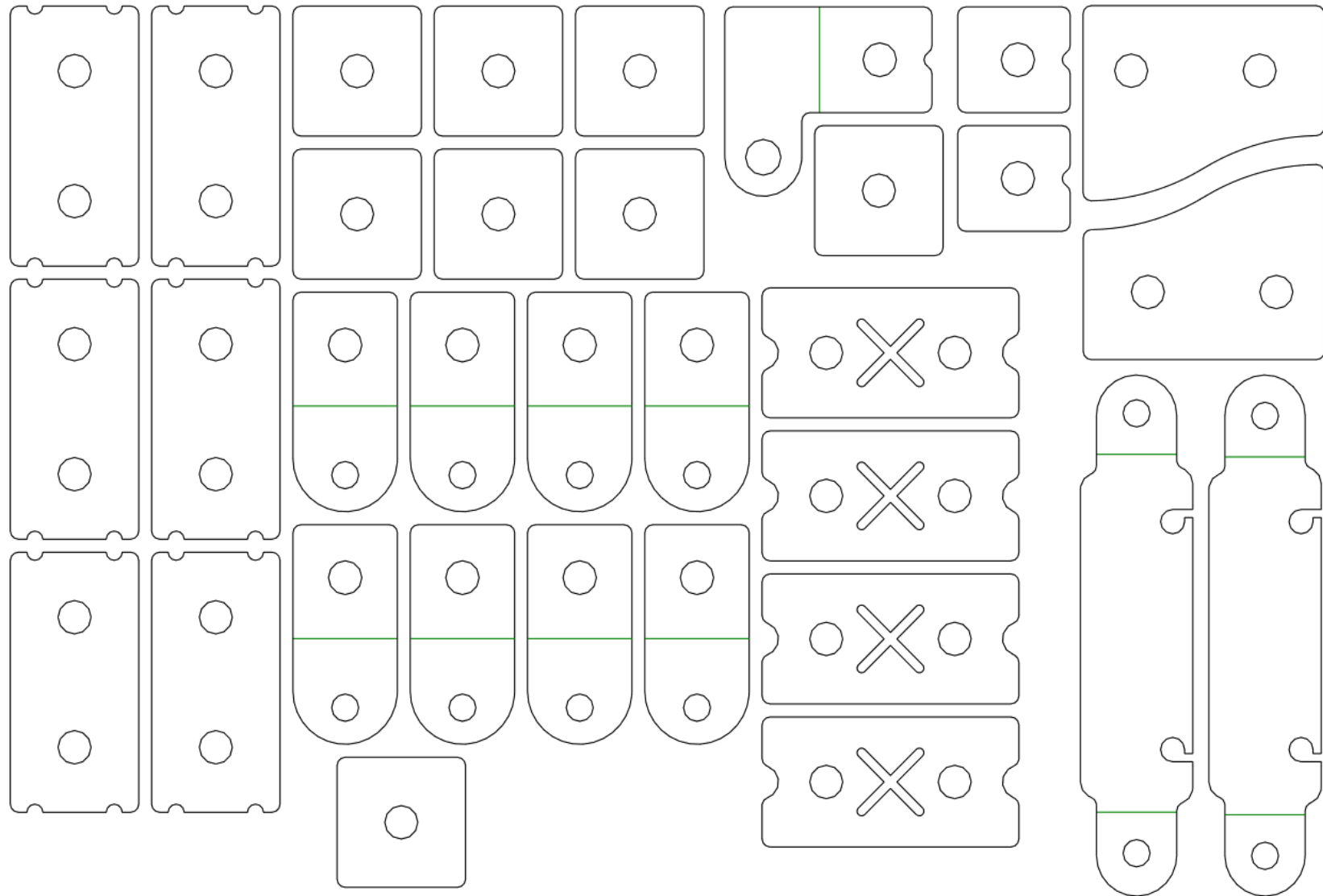
Chuck Plates



1/16" Common Parts

Download assembly instructions and software at
www.xwinder.com/build

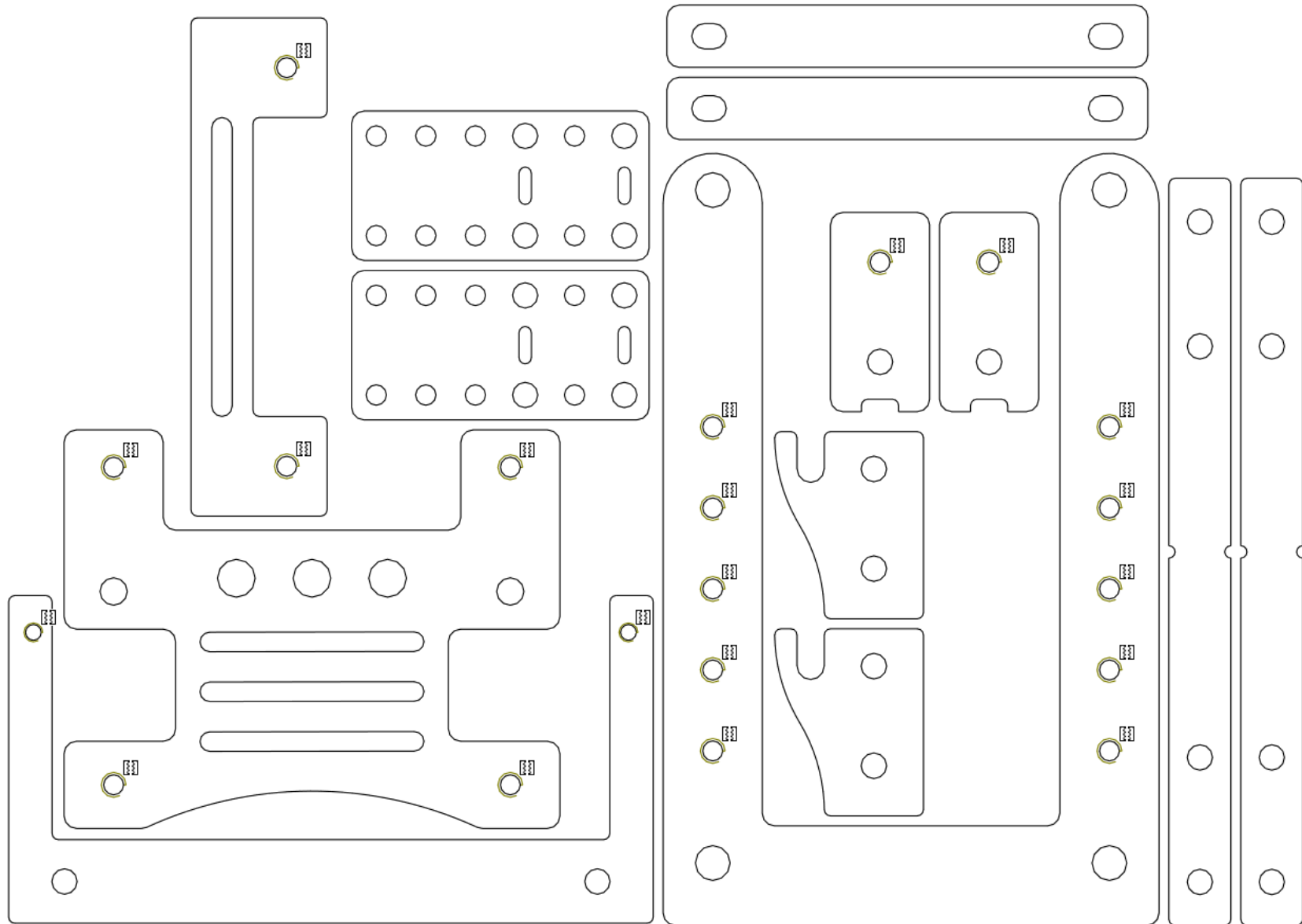
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3/16" Carriage Parts

Download assembly instructions and software at
www.xwinder.com/build

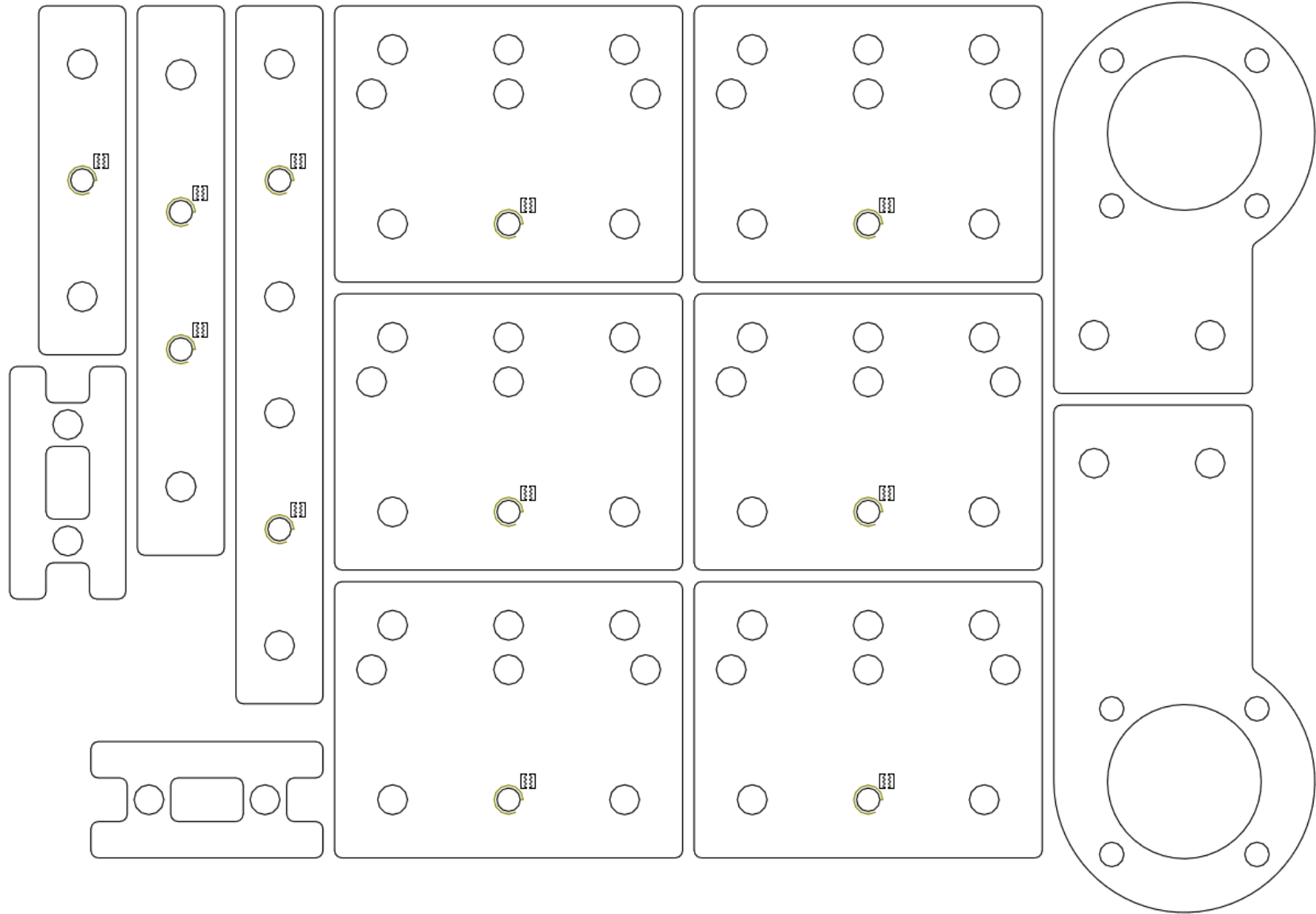
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3/16" Frame Parts

Download assembly instructions and software at
www.xwinder.com/build

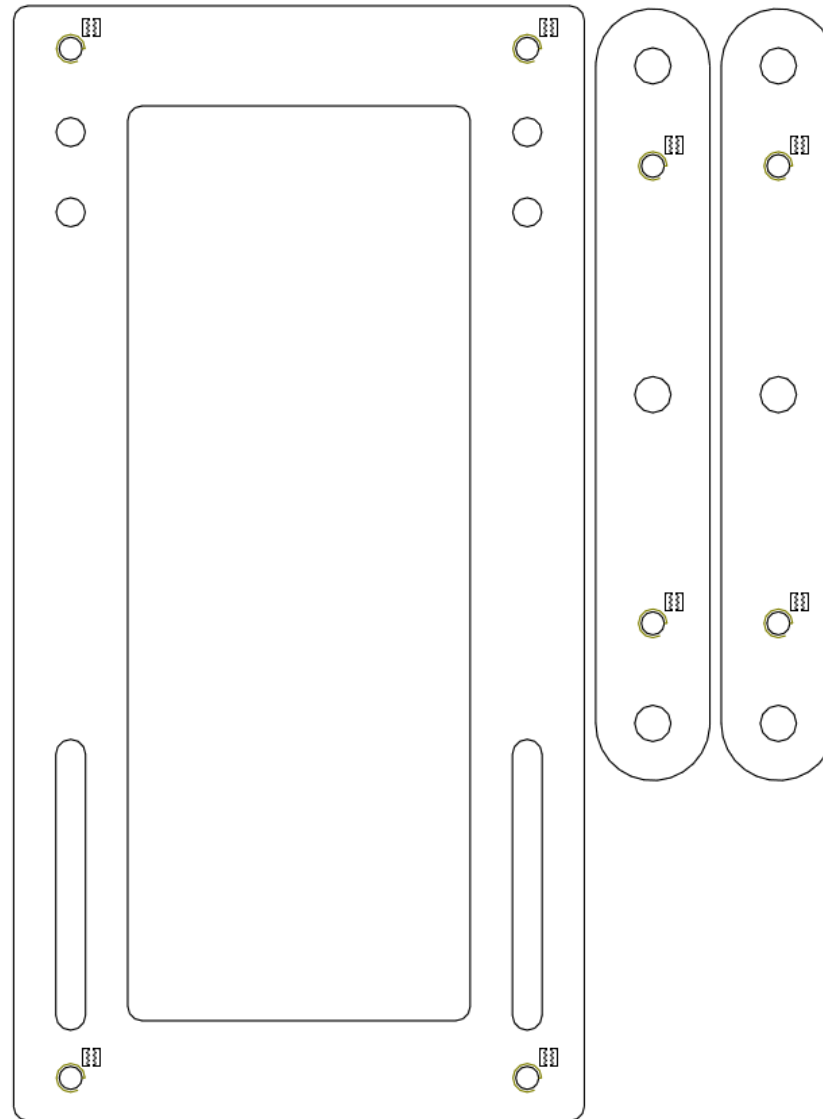
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3/16" Wheel Plate Parts

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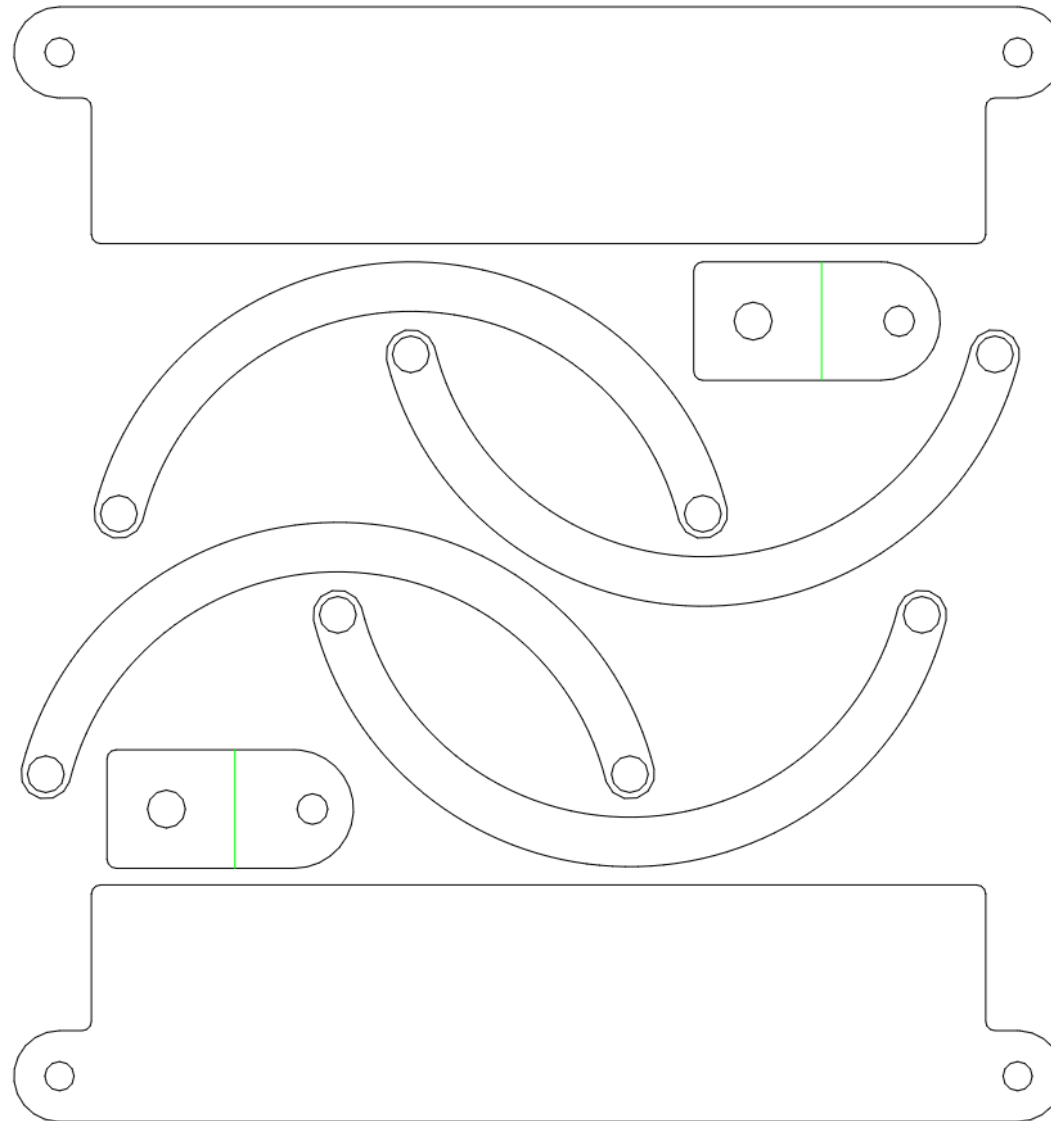
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2-Axis 1/16" Parts

Download assembly instructions and software at
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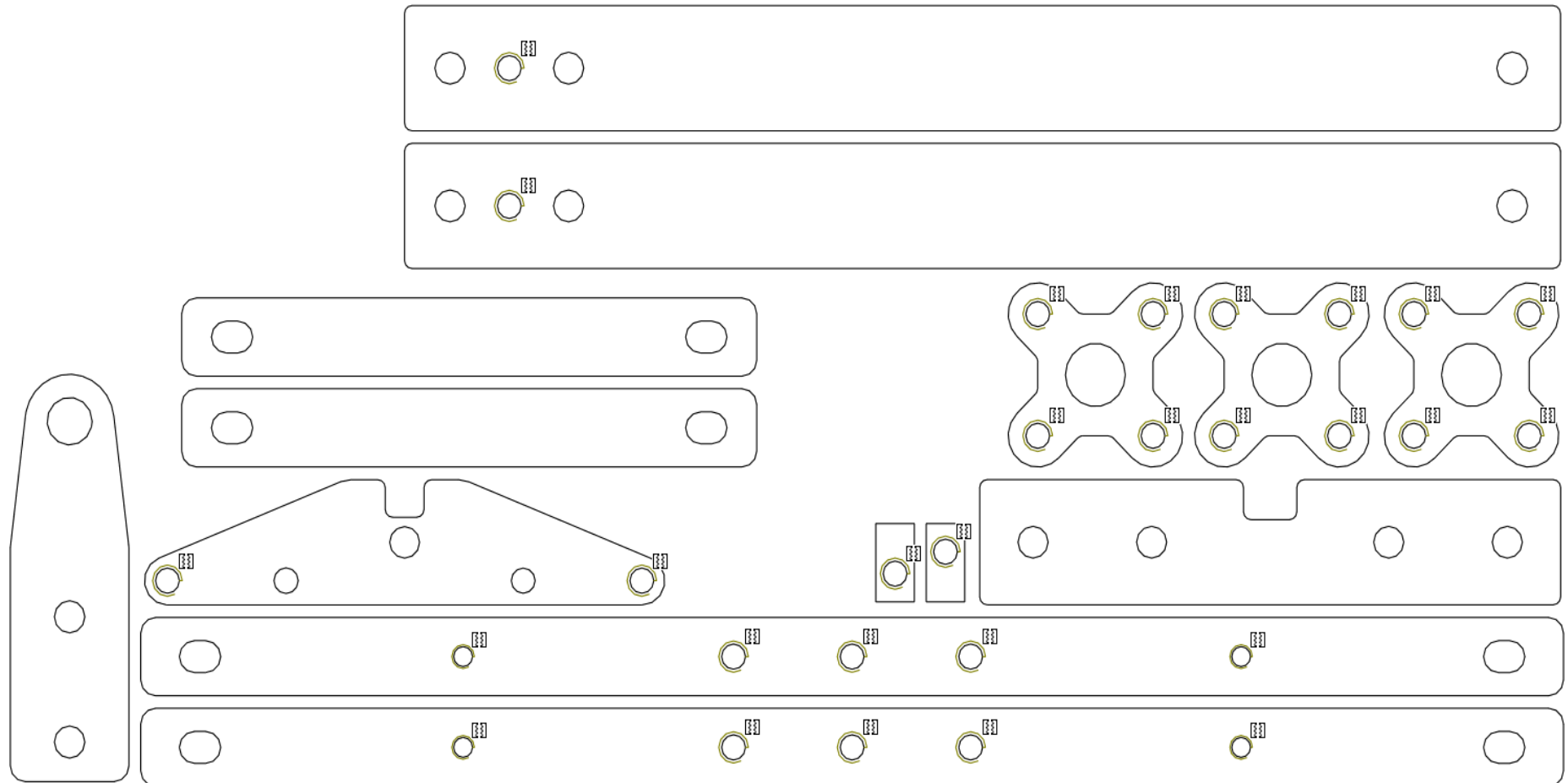




2-Axis 3/16" Parts

Download assembly instructions and software at
www.xwinder.com/build

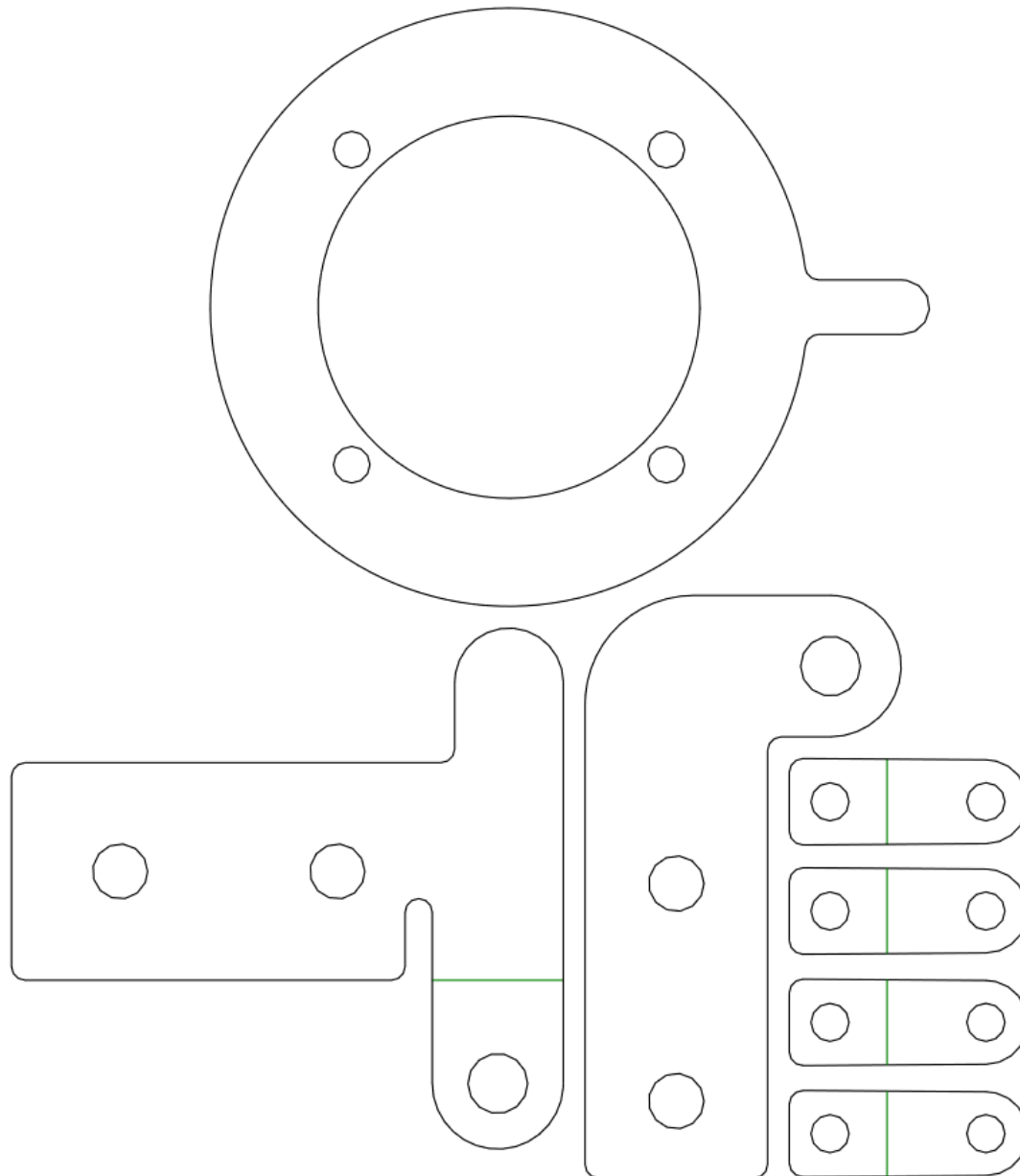
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4-Axis 1/16" Parts

Download assembly instructions and software at
www.xwinder.com/build

Join our online community at
community.xwinder.com

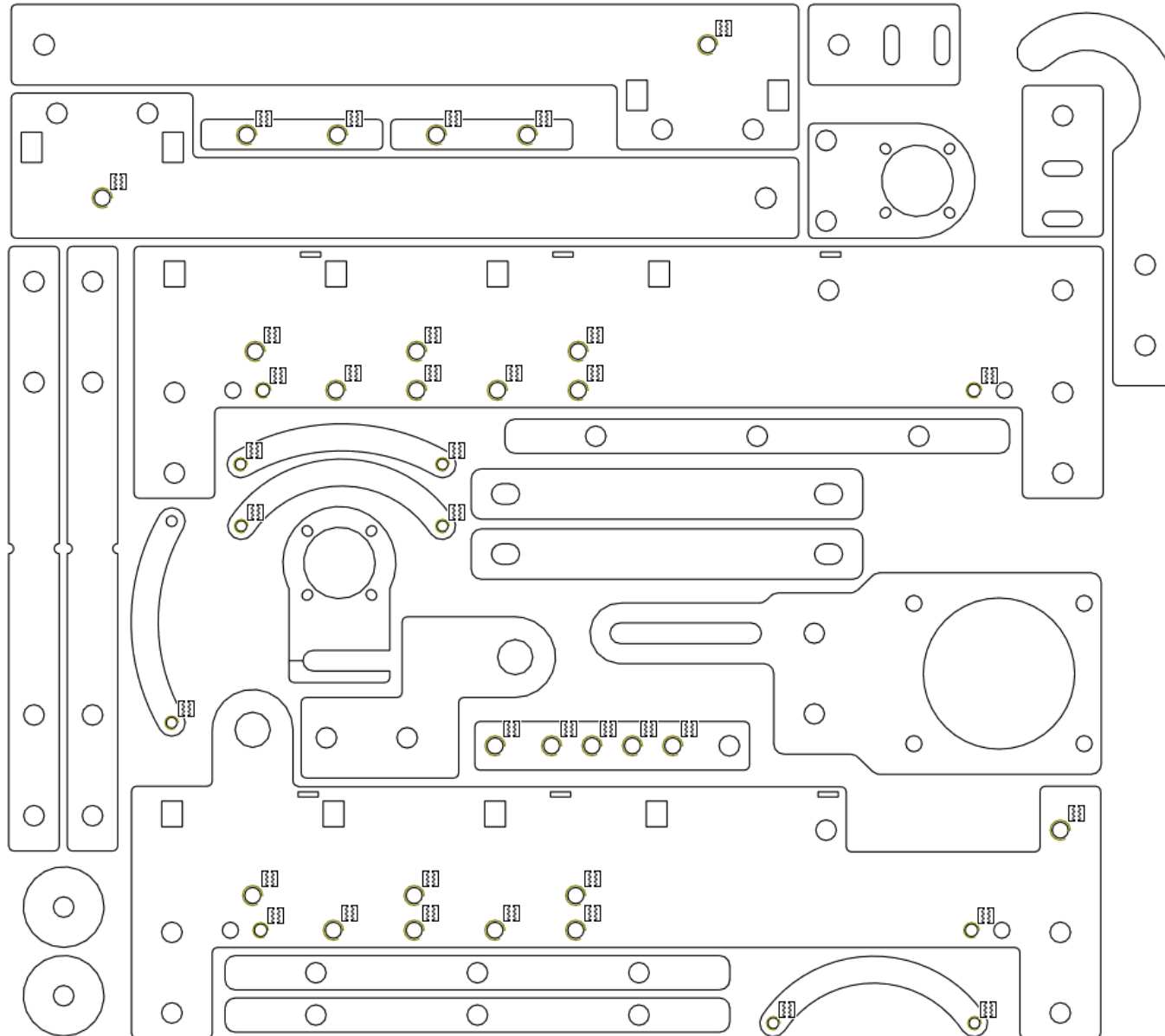




4-Axis 3/16" Parts

Download assembly instructions and software at
www.xwinder.com/build

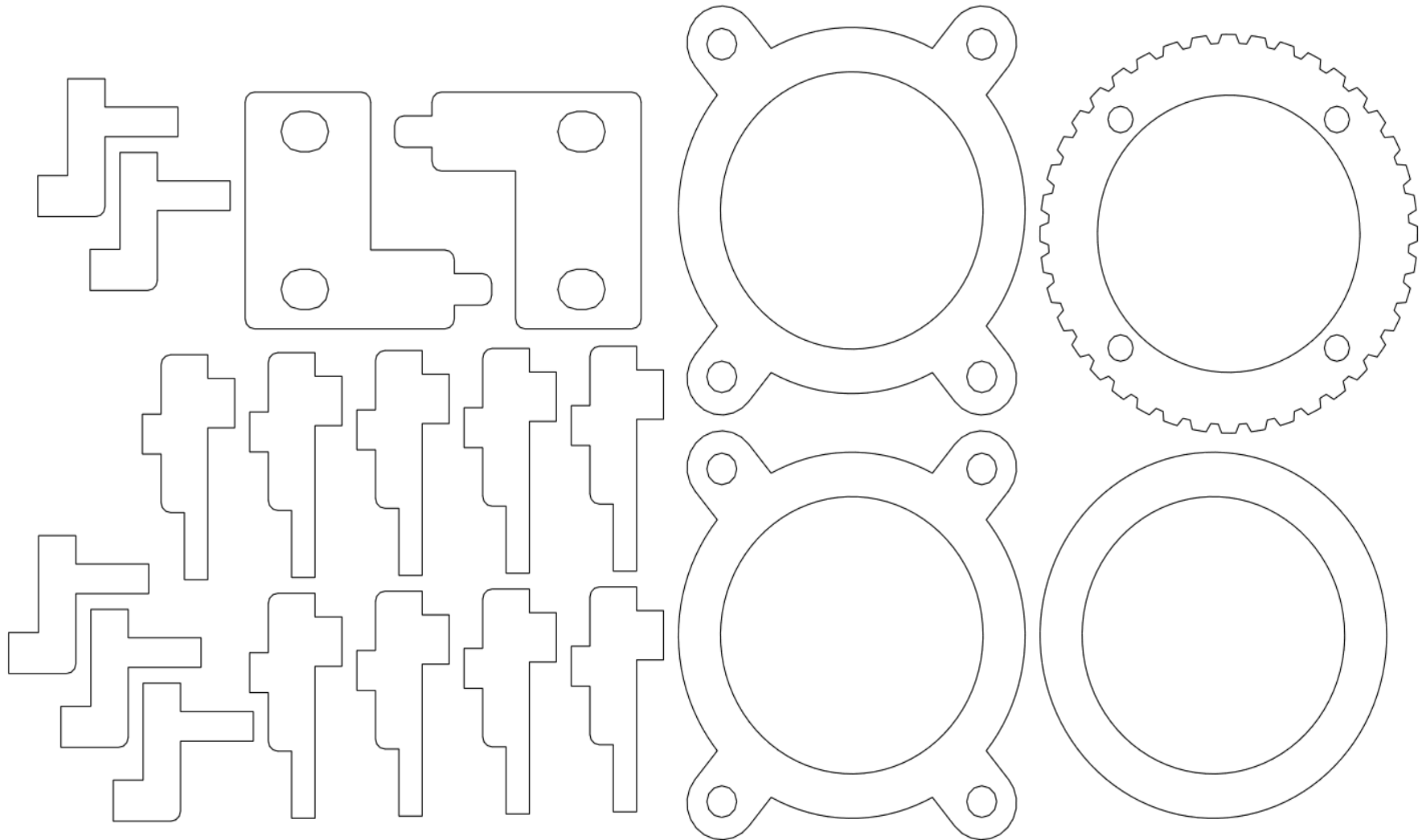
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Black Acetal Slides

Download assembly instructions and software at
www.xwinder.com/build

Join our online community at
community.xwinder.com



Delivery Head (DH) Arms

Download assembly instructions and software at
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