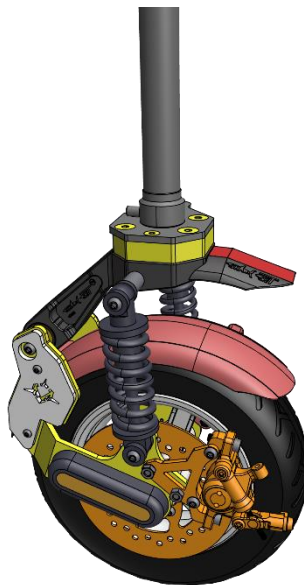


## SHARKSET SUSPENSION KIT INSTALLATION MANUAL

# SHARKSET MOBILITY <sup>®</sup>



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Dear Customer,

Thank You for Purchasing the SHARKSET Suspension Kit!

This manual provides a visual guide for assembling your suspension kit. We'll first detail the included components and then walk you through the assembly steps.

**This installation manual applies to both G2 and G30 electric scooters.**

**Included in the Package:**

- Xtech/Zoom brake caliper
- 140mm disc rotor
- Brake cable
- 6.5-inch rim with pre-installed tire
- Left and right-side swingarms
- 125mm shock absorbers 2PCS
- Aluminum CNC base
- Steering fork tube
- Complementary mudguards
- **Optional:** 3D-printed full-coverage mudguard
- Decorative plastic covers (white or yellow)
- Plastic covers with reflective stickers
- Screw pack
- Leveling aluminum spacer (only in G2 kits)

**After you've familiarized yourself with the front suspension kit assembly process, we recommend watching our official video tutorial on our YouTube channel to learn how to install it on your G30/G2 electric scooter.**

**[www.youtube.com/sharkset](http://www.youtube.com/sharkset)**

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Now that you've verified your package contents, let's prepare the necessary tools. While some tools are included in the kit, you may need additional ones during assembly. Here's what to have on hand:

- Adjustable wrench
- Hex socket wrench set (L-key set) with various sizes (preferably a complete kit)
- A regular pliers

### **Important Note: Safety First!**

For your safety, it's crucial to use thread-locking glue (Loctite or a similar brand) to secure the wheel nuts and all pivot axle bolts. This prevents them from loosening while you ride.

**Do not proceed with assembly if you don't have high-strength thread-locking glue.**

**We suggest 277 high strength Loctite.**



### **Screw Pack**

- **Individual Bags:** The screws come pre-sorted in separate bags, each labeled with a unique letter. This helps keep them organized and easy to identify.

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- **Instructional Guide:** The description mentions there's an explanation for "where and how" the screws should be used. This likely refers to a separate guide that accompanies the screw pack. It should explain which screw (based on its bag letter) is intended for specific locations or purposes during your project.

<i>Label</i>	<i>Type</i>	<i>Length mm</i>	<i>Quantity PCs</i>	<i>Applicable To</i>
A	M6 Screw	12	6	G2/G30
B	M4 Screw	10	4	G2/G30
C	M3 Screw	8	4	G2/G30
D	M6 Screw	14	2	G2
E	M8 Screw	35	4	G2
F	M4 Screw	8	2	G2/G30
G	M4 Screw	12	4	G2/G30
H	M4 Nut		8	G2/G30
I	M6 Screw	16	2	G2/G30
J	M6 Nut		2	G2/G30
K	M6 Screw	16	2	G2/G30
L	M5 Screw	16	2	G2/G30
M	M5 Nut		3	G2/G30
N	M5 Screw	18	1	G2/G30
O	M4 Screw	16	4	G2/G30
P	M8 Screw	20	4	G30
Q	PIVOT AXLE & SPACERS			G2/G30
R	UPPER SHOCK ABSORBER AXLE & SPACERS			G2/G30
S	WHEEL AXLE & M10 NUTS			G2/G30
No label	Disc Rotor Screw Pack	Black color	6	G2/G30

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**Screw Pack Labeling Note:**

There might be a slight difference in the screw pack labeling depending on your scooter model:

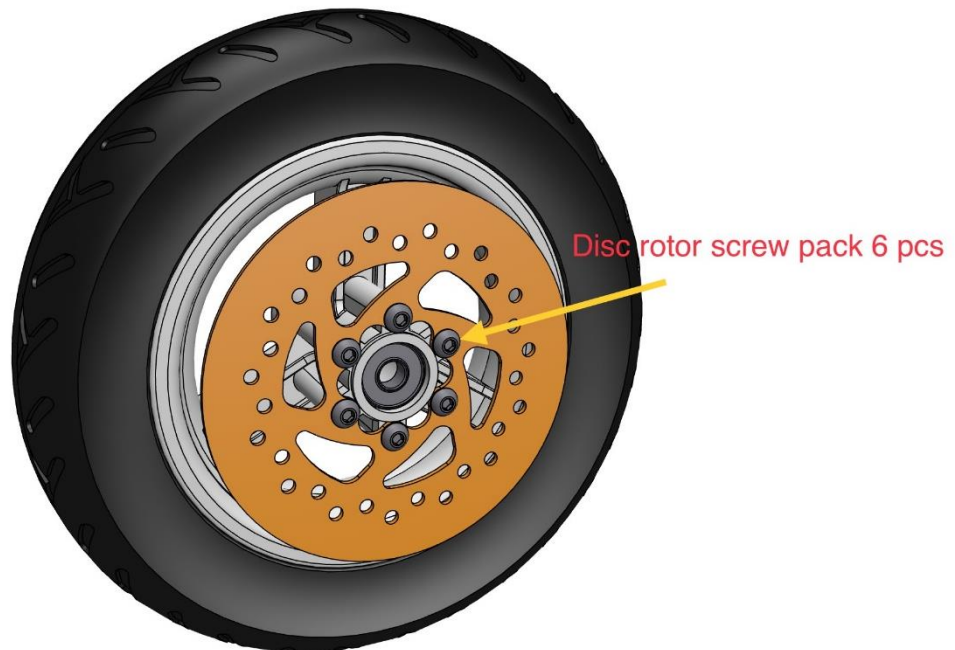
- **G2 Kit:** The screw pack won't have a "P" label.
- **G30 Kit:** The screw pack won't have an "E" label.

**Assembly Sequence:**

This section guides you through assembling the suspension kit. We recommend following the steps in the order presented for optimal results. However, if you're experienced with DIY projects, you can certainly use your preferred assembly sequence.

**1. Disc Rotor Installation**

Mount the disc rotor onto the wheel and tighten the provided black screws by hand.



## 2. CNC Base and Steering Fork Tube Assembly

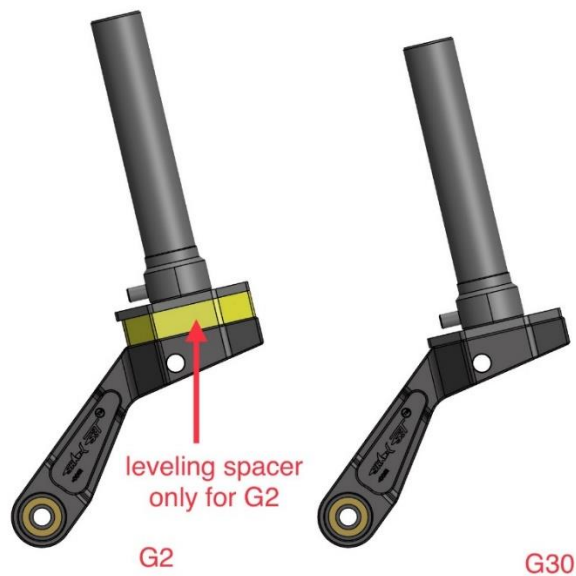
### G2 Kit:

- If you purchased a G2 kit, you'll need to use the provided 15mm aluminum spacer. Insert it between the steering fork tube and the CNC aluminum base before assembly.
- Use screws labeled "E" from the screw pack to mount the steering fork tube onto the CNC base with the spacer.
- This step applies only to G2 kits. You can secure the leveling spacers to the steering fork tube using the screws labeled "D" from the screw pack. However, this is an optional step, and you can continue the assembly process even without installing these screws.

### G30 Kit:

- For G30 scooters, mount the steering fork tube directly onto the CNC aluminum base.

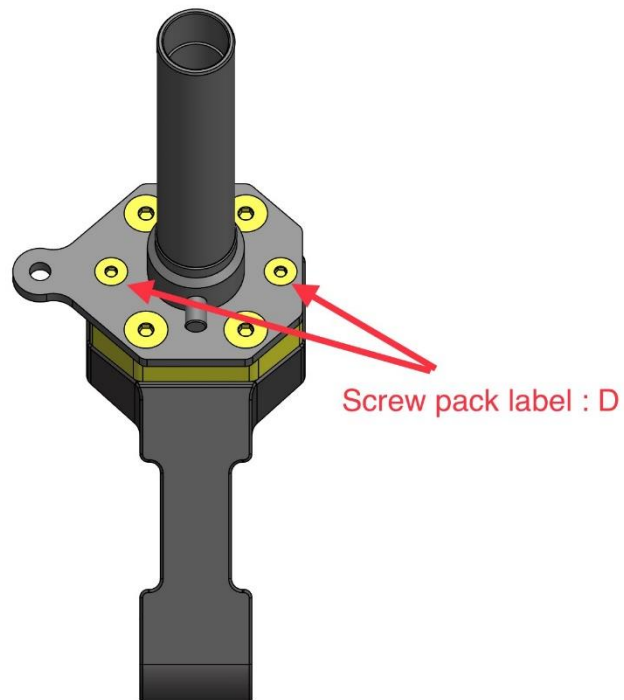
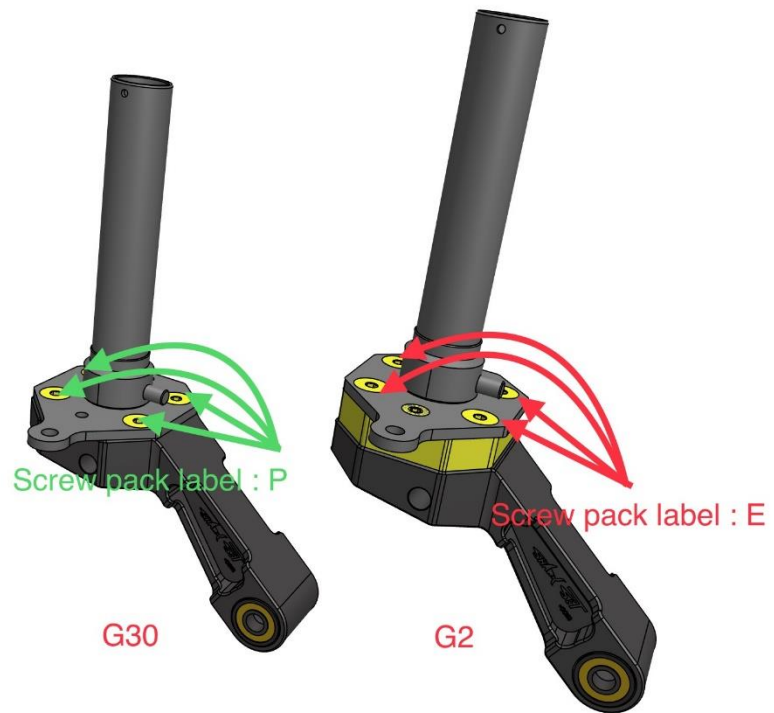
**Important:** Always apply thread-locking glue (Loctite) to these screws to prevent them from loosening while riding.



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### 3. Brake Bracket Assembly (G2 & G30)

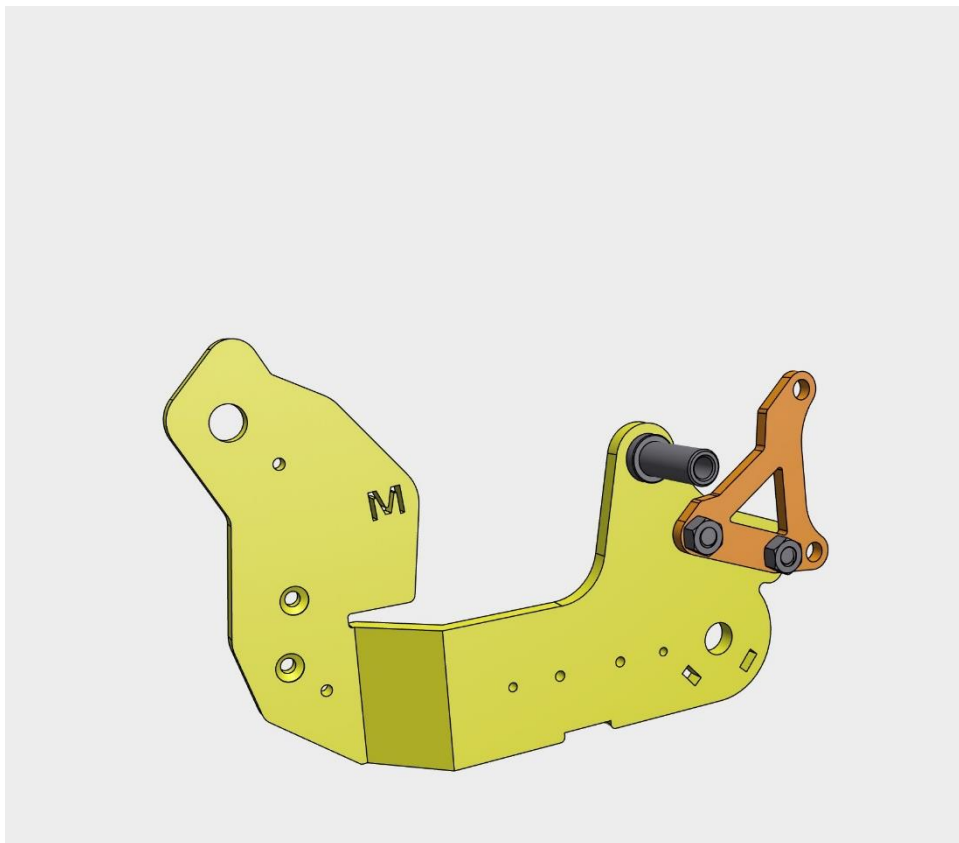
This step involves installing the disc brake bracket on the right-side swingarm. The process is identical for both G2 and G30 models.

#### Required Hardware:

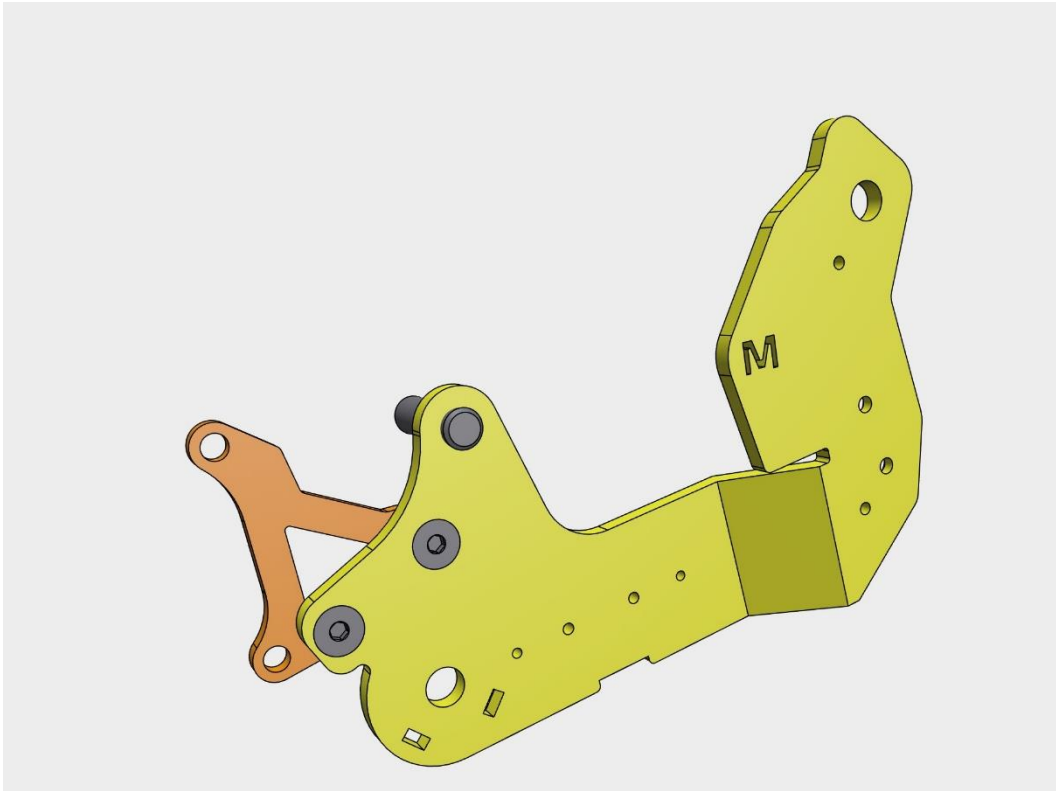
- Screws labeled "I" from the screw pack
- Nuts labeled "J"

#### Instructions:

- Refer to the provided photos for guidance.
- Position the disc brake bracket on the designated location on the right-side swingarm.
- Secure the bracket using the screws (labeled "I") and nuts (labeled "J").







## 4. Swingarm Assembly

### Identifying Swingarms:

- **G30 Kit:** Your swingarms will be marked with the letter "A."
- **G2 Kit:** Your swingarms will be marked with the letter "M."

### Pivot Axle:

- The pivot axle may already be pre-installed on the bearings in your swingarms. Alternatively, you might find them in the screw pack labeled "Q."

### Installing the Pivot Axle (if needed):

- If you need to insert the pivot axle yourself, ensure the small spacer between the pivot bearings is properly aligned.
- Take two 17mm spacers (included in screw pack "Q") and add one on each side of the pivot axle.

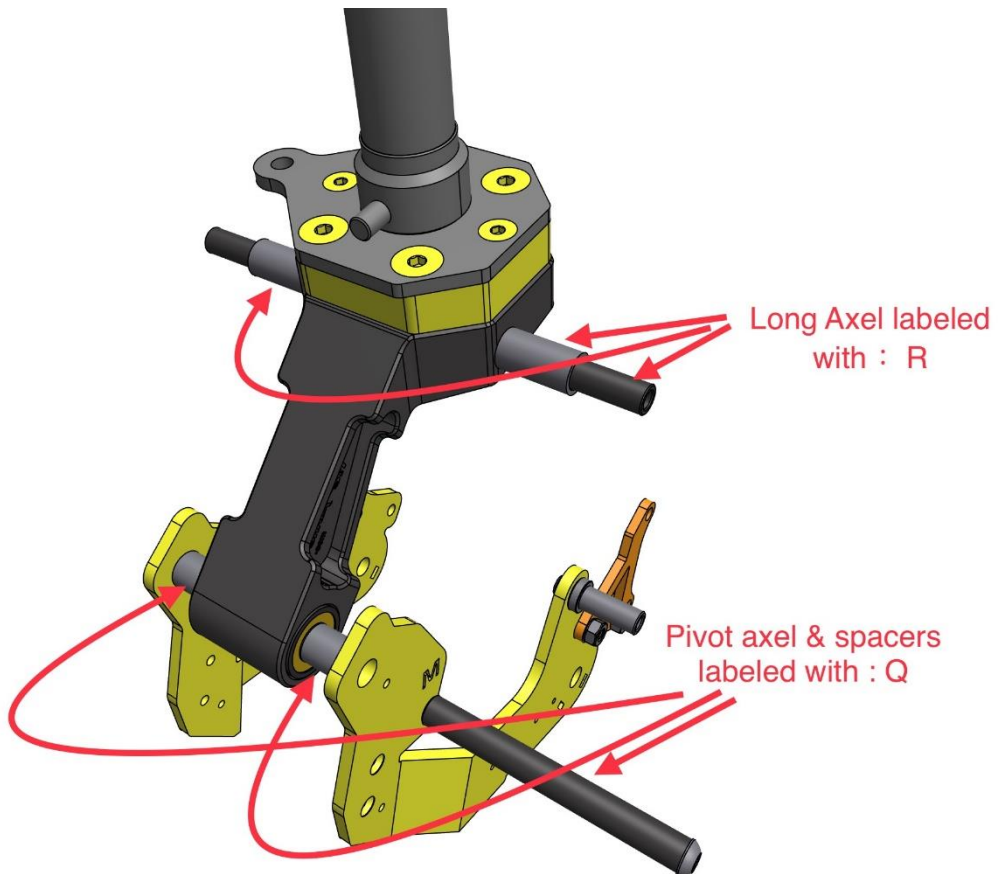
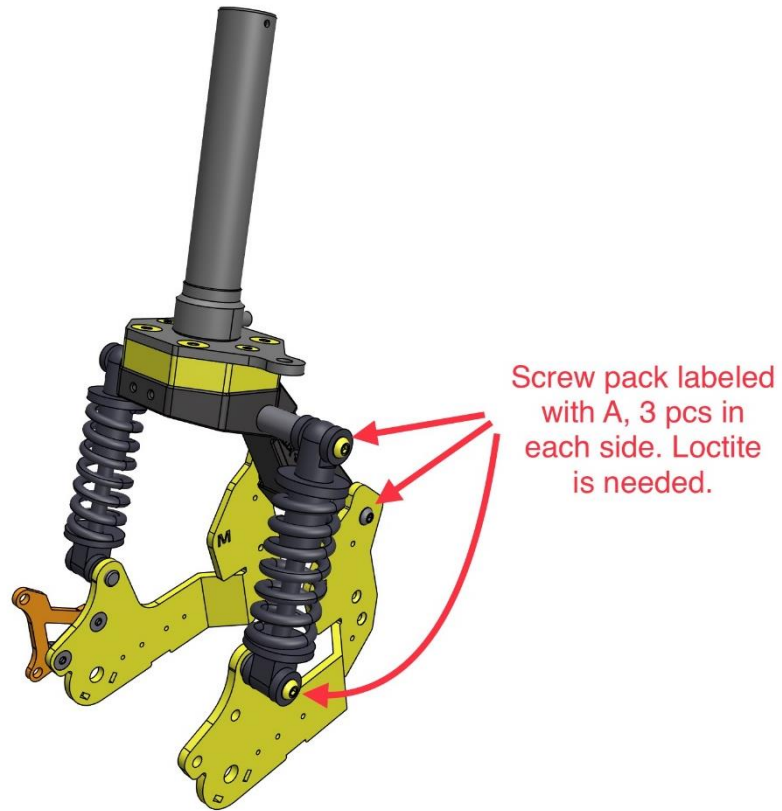
### Mounting the Swingarm:

- Slide the assembled swingarm onto the CNC base or steering fork tube (depending on your scooter model).
- Secure the swingarm using the two screws labeled "A" from the screw pack.

Applying some Loctite is a must.

## 5. Shock Absorber Assembly:

- Take the long axles provided in the screw pack labeled "R."
- Inserting the Long Axles
- Before inserting the axles, ensure the holes on the CNC aluminum base, swingarm, and shock absorbers are perfectly aligned. Any misalignment can cause binding and difficulty inserting the axle.
- Use a lubricant like grease or anti-seize compound on the axle to ease insertion.
- If the axle slides in easily with light hand pressure, that's ideal. If it feels tight, don't use any metal head hammers (only rubber head hammer is allowed).
- A tight fit might indicate misalignment or a burr on the axle. Double-check alignment and inspect the axle for any imperfections. If needed, consult the troubleshooting section of the manual or contact SHARKSET support for assistance.
- Important Safety Note:
- Add one 25.9mm spacer (included in screw pack "R") on each side of the axle, next to the shock absorber.
- Install the shock absorbers.



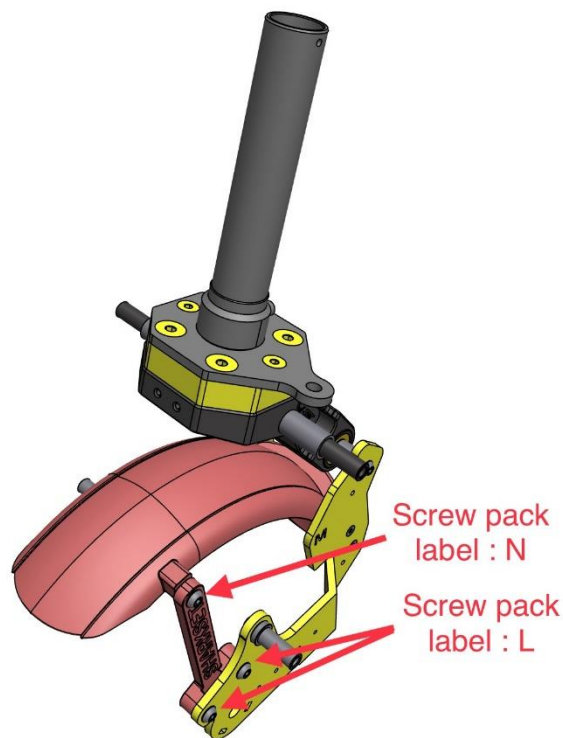
## 6. 3D-Printed Full-Coverage Mudguard (Optional)

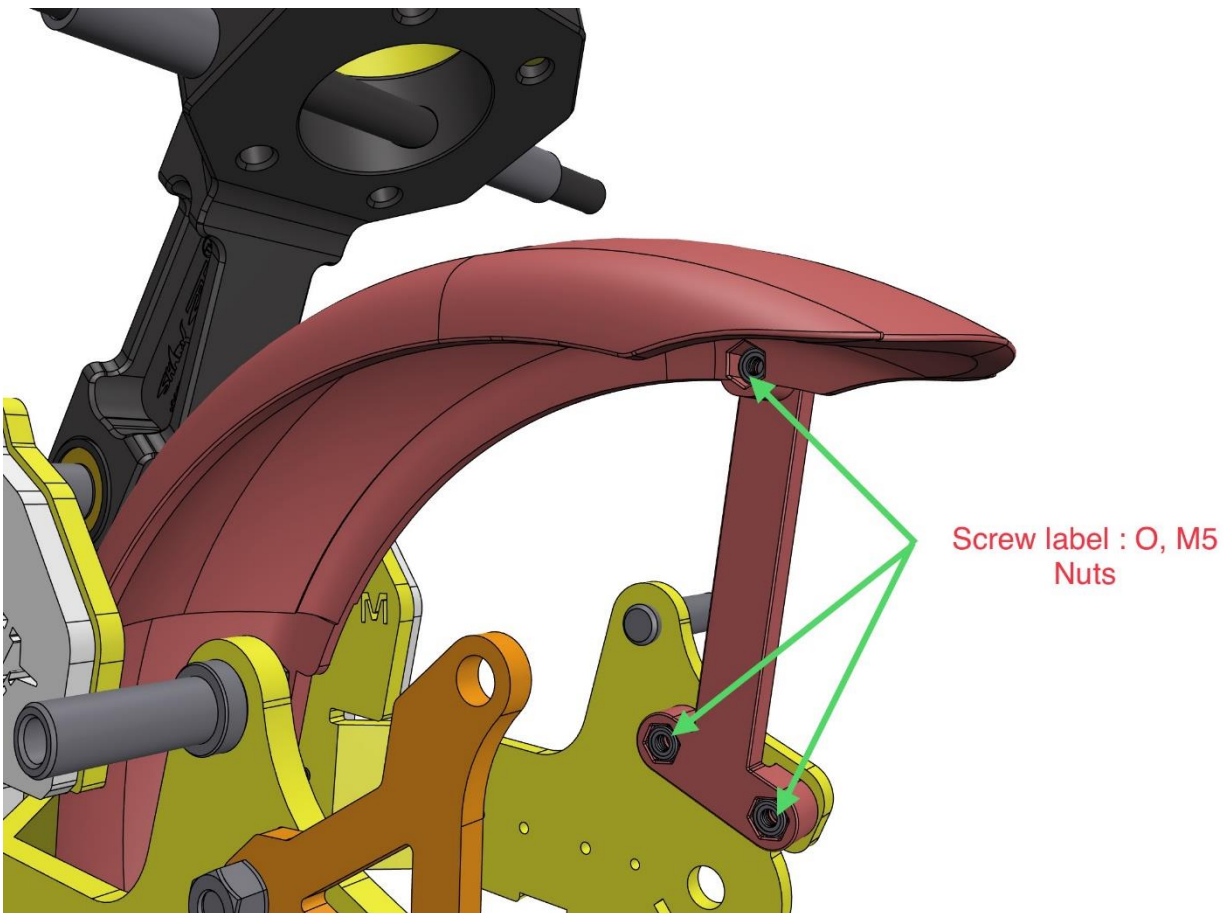
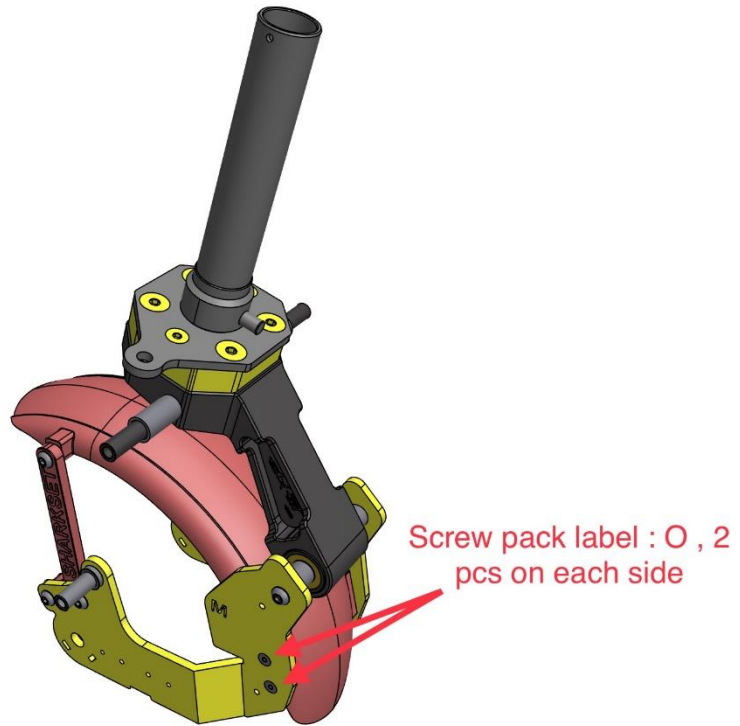
If you purchased the optional full-coverage 3D-printed mudguard, you'll find the necessary screws and nuts in your kit. Here's what you'll need:

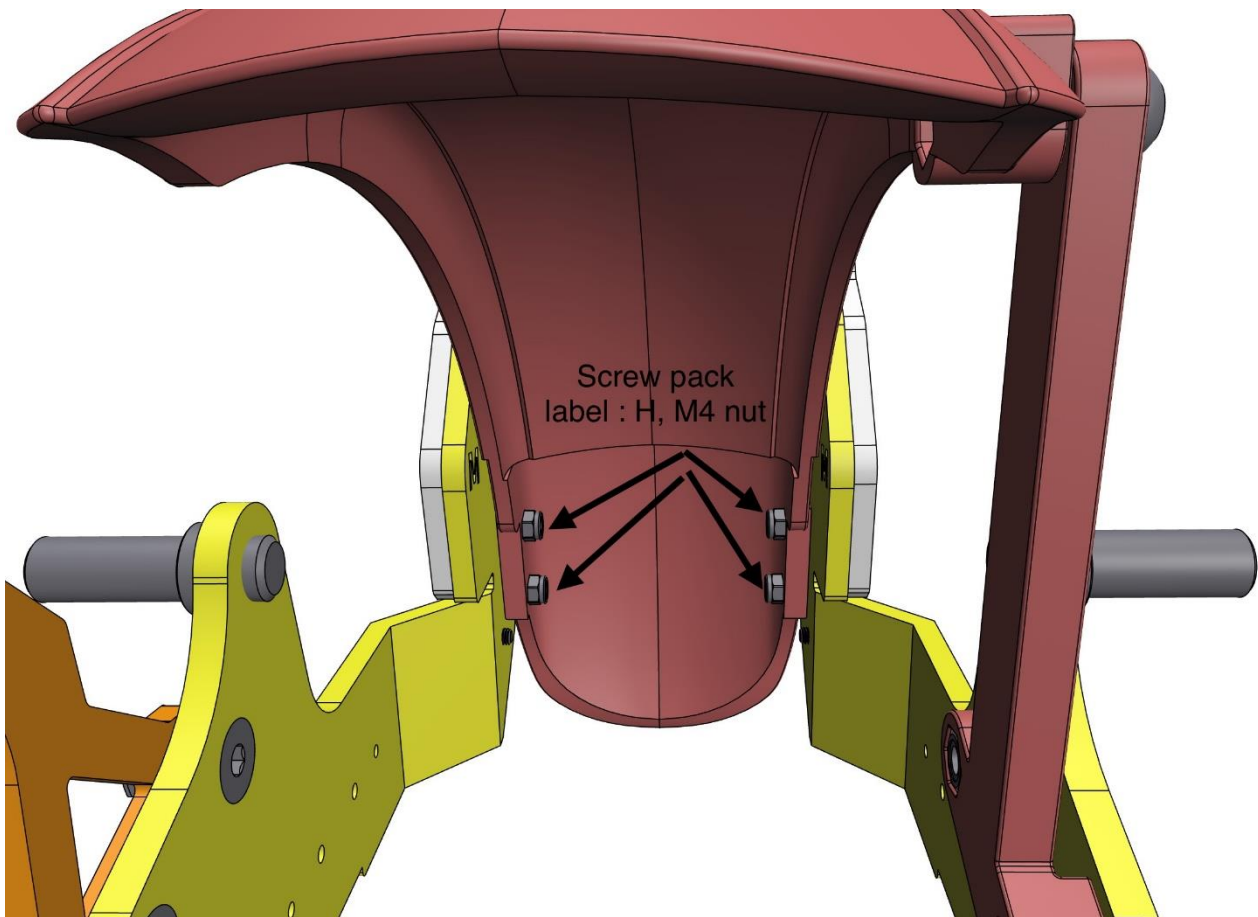
- Screw pack labeled with "L"
- Screw pack labeled with "M"
- Screw pack labeled with "N"
- Screw pack labeled with "O"
- Screw pack labeled with "H"

### Important Note:

3D-printed parts are more fragile than molded plastic. Be cautious when tightening the screws and nuts to avoid cracking the mudguard. Use gentle pressure and stop once the parts are securely fastened.







## 7. Wheel Installation

### Required Hardware:

- Screw pack labeled with "S" (containing a wheel axle, two 11.5mm spacers, and two M10 nuts)
- High-strength thread-locking glue (Loctite or similar)

### **Safety First!**

- **Never install the wheel without applying Loctite.** This is crucial for your safety to prevent the wheel nuts from loosening while riding.

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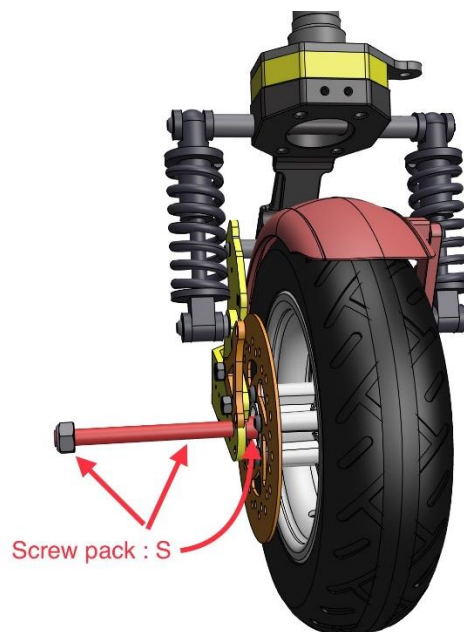
## Installation Steps:

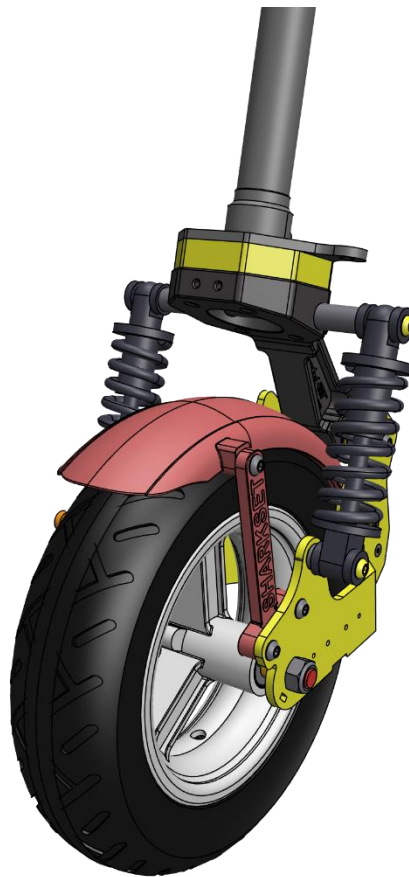
### 1. Insert the Axle:

- Start by feeding the axle from the **right side** of the wheel. This ensures space for the right-side spacer.
- Locate the **hidden spacer** positioned between the two bearings. Align this spacer first.
- Carefully guide the axle through the middle spacer.
- Once the axle exits the left side bearing, add the second 11.5mm spacer.

### 2. Apply Loctite and Tighten Nuts:

- Apply a generous amount of high-strength thread-locking glue (Loctite) to the axle threads.
- Screw on the M10 nuts and tighten them securely using a wrench or another appropriate tool. Ensure the wheel is properly seated and spins freely without wobbling.





## 8. Xtech Brake Caliper Installation

### Required Hardware:

- Screw pack labeled with "K"

### Instructions:

#### 1. Caliper Positioning:

- Carefully position the Xtech brake caliper onto the disc brake bracket you installed earlier.
- Ensure the brake pads align precisely with the disc rotor. There should be minimal clearance between the pads and the rotor, but they shouldn't touch when the brakes aren't applied.

#### 2. Secure the Caliper:

- Use the screws from screw pack "K" to securely fasten the brake caliper to the disc brake bracket. Tighten the screws firmly, but avoid over-tightening.

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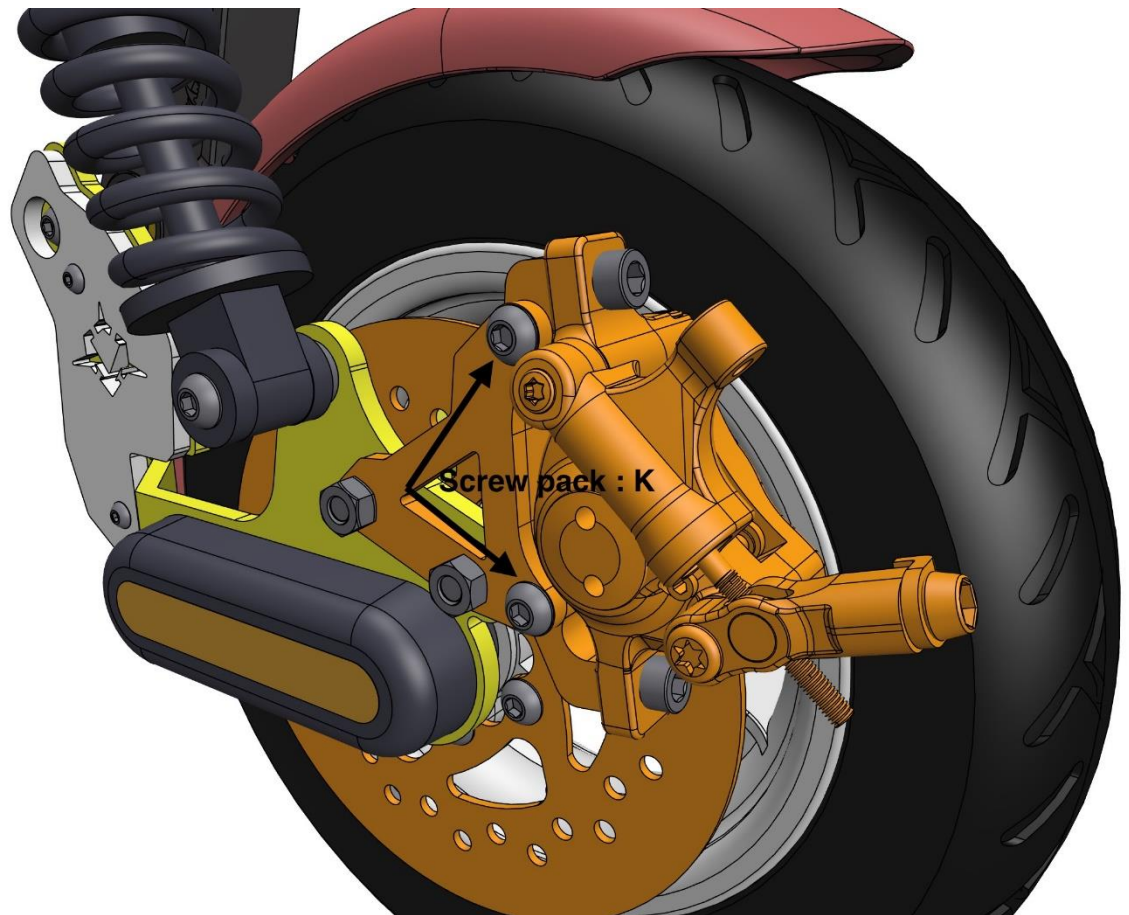
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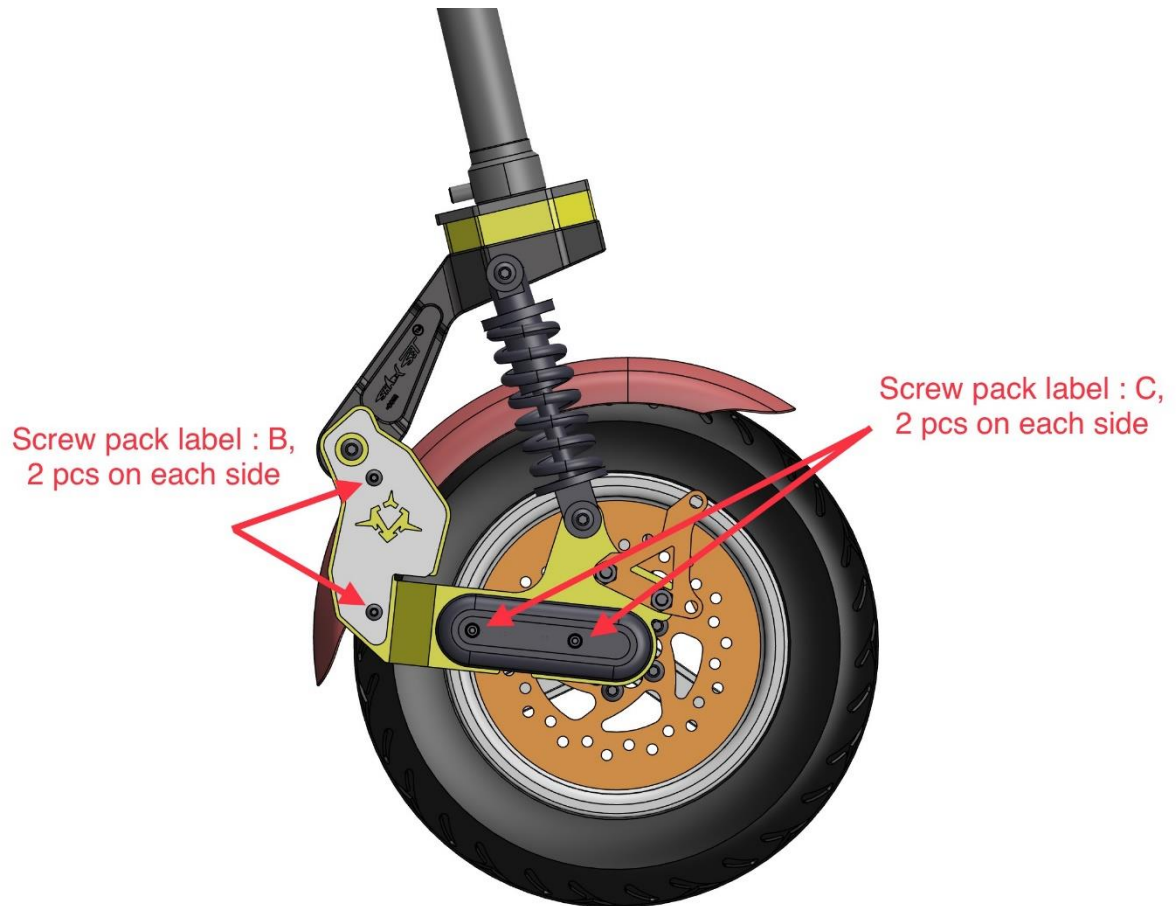


### 3. Check for Friction:

- Once the caliper is secured, spin the wheel and visually inspect for any friction between the disc rotor and the brake pads. If there's rubbing, consult the brake adjustment section of the manual for instructions on fine-tuning the caliper position.



## 9. Installing decorative plastic covers



## 10. Installing reflective cover



To install the included mudguard, use the screw pack labeled with "F."

