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## Manual for using hub caps

Using hub caps on your bike is important for proper assembly and functionality of your wheel. Hub caps (or "axles") are located at both ends of the hub and are used to attach the wheel to the bike frame. Here is a step-by-step guide on how to properly use hub caps on your bike.

### 1. Identifying the type of hub caps

First, you need to determine what type of hub caps you are using. There are two main types:

**Quick Release (QR):** This type of hub has a lever that allows you to quickly and easily attach and detach the wheel.

**Thru-axle:** This type of hub is stronger and requires the use of tools (allen keys or thread keys), so it is mainly used on higher-end or racing bikes.

### 2. Installing a wheel with a quick release (QR) axle

If you have a quick release axle, follow these steps:

Step 1: Set the wheel to the correct position in the frame (front or rear wheel).

Step 2: Turn the quick release axle lever into the hole in the hub.

Step 3: Push the axle through the hub until it passes through the frame and is in the correct position. Make sure the wheel is straight, not crooked, and is seated firmly.

Step 4: Tighten the axle by turning the lever. The lever should be heavy to close, but not too heavy. Ideally, the lever should be tilted to approximately a 90-degree position when properly tightened.

Step 5: Check the tightness of the attachment by trying to move the wheel. If it is properly secured, it should not move.

### 3. Installing a Thru-axle Wheel

For thru-axle wheels, you will need a wrench or Allen key, depending on your type of axle. Here's how:

Step 1: Make sure you have the correct length and type of axle for your bike. Thru-axle wheels vary by bike type (mountain, road, gravel, etc.).

Step 2: Place the wheel on the frame and adjust it to the correct position. The thru-axle wheel should go through the hub and frame.

Step 3: Thread the axle through the holes in the hub and frame of the bike. The thru-axle wheel should be positioned straight and through all holes.



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Step 4: Use an Allen key or wrench to tighten the axle. Make sure the axle is tight but not overtightened. The thru-axle wheel should be securely in place but not completely locked (as this can damage the threads).

Step 5: Check that the wheel is securely attached and does not move.

#### **4. Check the fastening**

After mounting the wheel, always check that it is securely attached. If you are using quick-release hubs, try to shake the wheel a little to see if it moves. For axle hubs, make sure that the axle is securely tightened.

If you notice any movement or instability, immediately re-check the wheel and adjust the fastening.

#### **5. Maintenance of the hubs**

Both quick-release hubs and axle hubs deserve regular maintenance. Check them for any damage or wear.

Occasionally lubricate the threads of the axles or quick-release mechanisms to ensure their smooth operation.

#### **Conclusion**

The use of hubs on your bicycle hub is crucial for the safety and functionality of your bicycle. By installing the wheel correctly and checking the fastening, you can avoid unpleasant problems while riding. I hope this guide was useful!