Main Struts – User Guide

The following document describes two important points of our Main Struts:

- How to secure the wheel axle.
- How to adjust the offset angle.

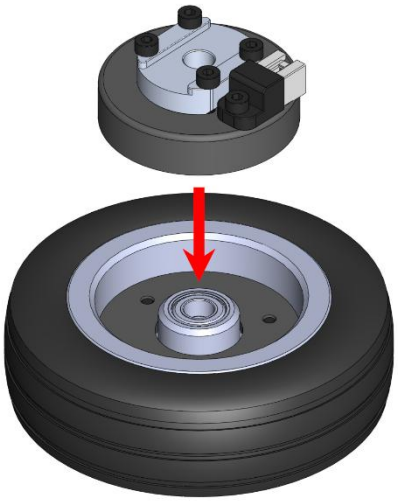


How to secure the wheel axle

If you are using our main struts and wheels, it's very important to properly secure the wheel axle to prevent the wheel from falling off. A safety ring / circlip is used to prevent the axle from slipping. The process begins with the assembly of the brake on the wheel, before mounting it on the strut.

STEP 1

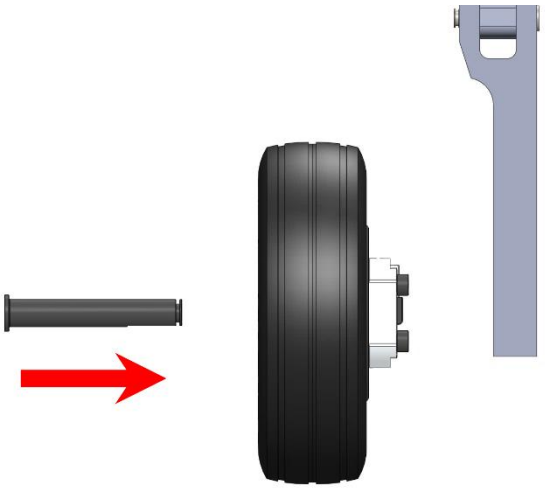
First, make sure the brake disc sits flat at the bottom of the wheel, and then place the brake on top.



STEP 2

Get the axle through the wheel brake, and then through the strut axle hole.

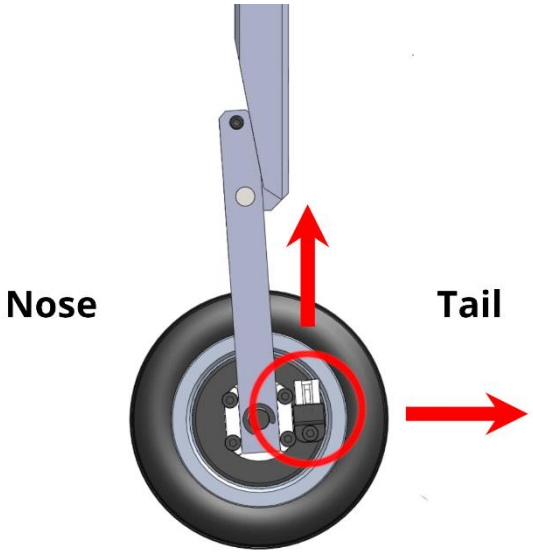
Make sure the head of the axle is facing against the wheel rim/bearing.



STEP 3

Verify the brake position!

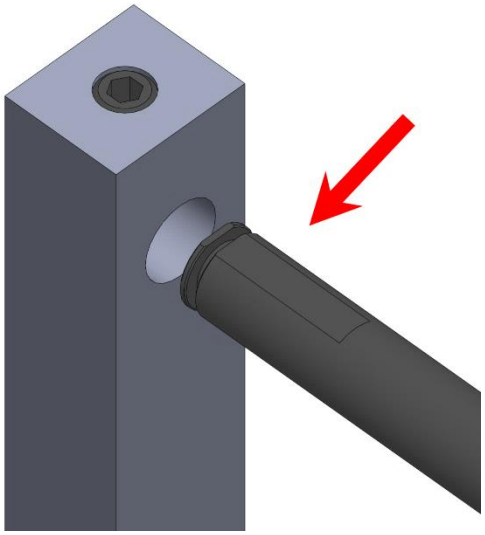
The cable should go upwards, and the connector should be oriented closer to the tail, so when the strut is compressed, the cable is not pulled.



STEP 4

The axle has a flat surface. Make sure to align it with set screw at the bottom of the strut.

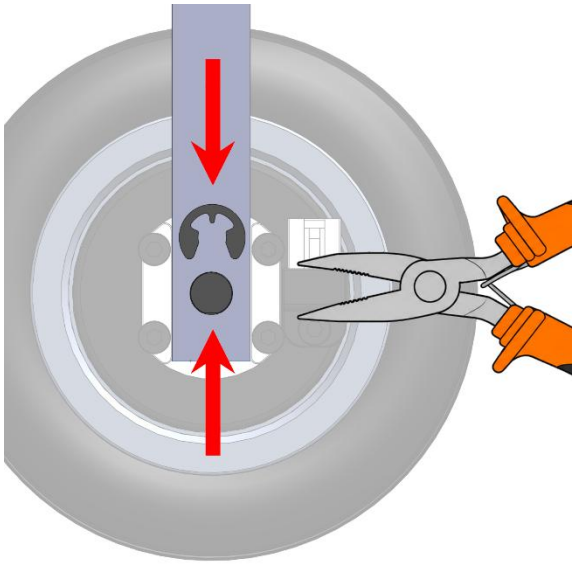
Tighten the screw so the wheel doesn't fall off.



STEP 5

With a set of pliers, secure the axle with the safety ring / circlip provided.

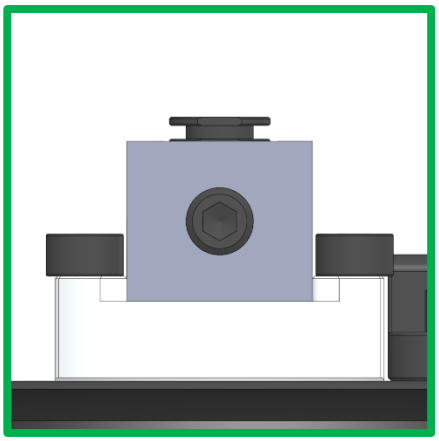
The wheel is now properly installed.



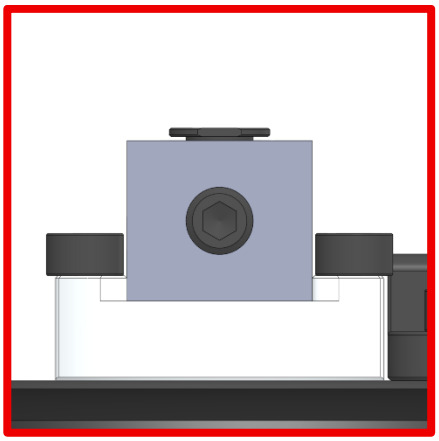
Troubleshooting

If you're having issues securing the safety ring / circlip, check if the wheel axle position is correct, as shown in the images on the left.

If this happens, verify the brake is correctly assembled: the disc or the brake itself may not be properly seated. Remove the wheel and double check everything sits flat and without difficulty.



Correct



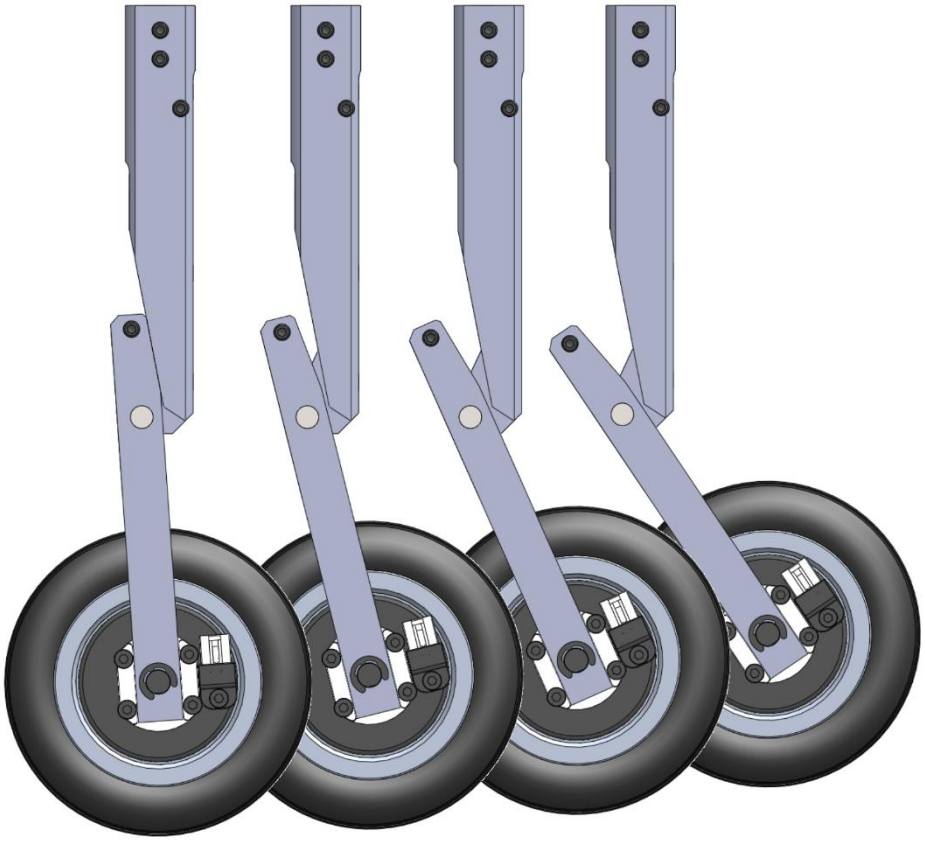
Incorrect

How to adjust the offset angle.

Our main struts are versatile and allow you to set a fixed offset / rake angle, ensuring the strut will adapt to the shape of the wing cut.

To do this, two special set screws and a small amount of thread-locker are provided with the struts.

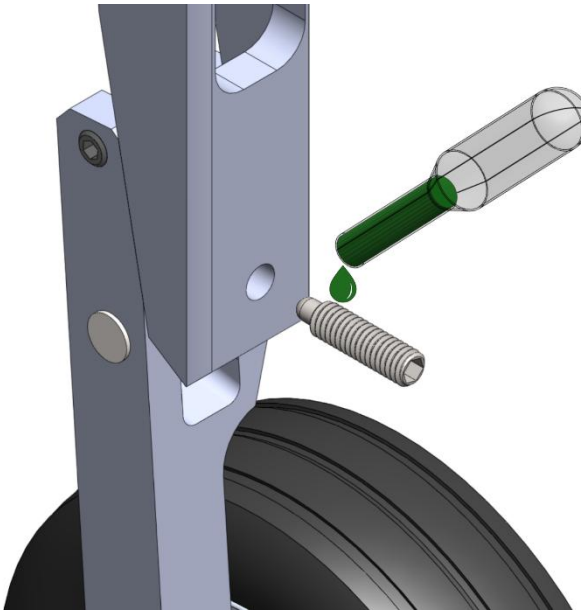
If you don't need to set a fixed offset angle, you don't need to install the set screws nor apply any thread-locker.



STEP 1

Apply a few drops of thread-locker in the set screw provided.

The thread-locker will start to dry after a few minutes.

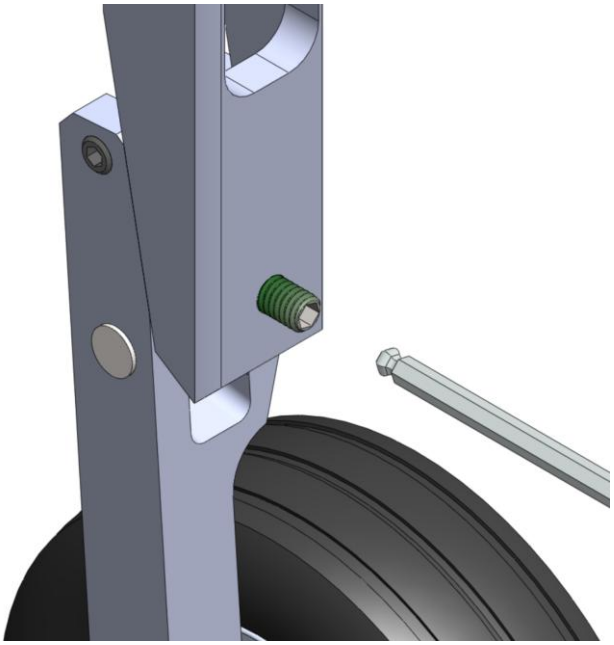


STEP 2

Next, turn in the screw as much as you need.

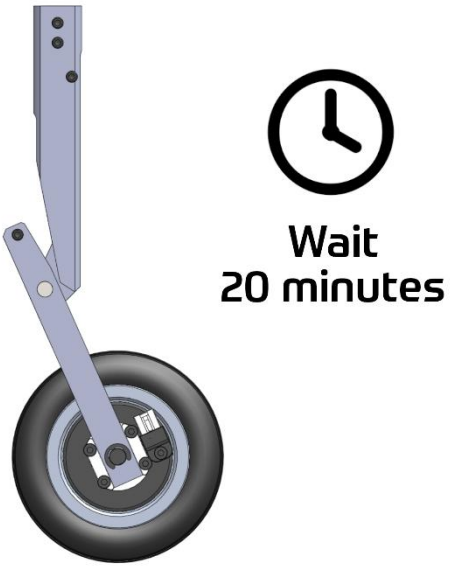
The more the screw is inserted, the larger the angle will be.

We advise the angle is less than half the strut compression range, otherwise its capacity to absorb landing impacts and bumps will be affected.



STEP 3

Once the angle is set, don't turn the screw during the next 20 minutes, to allow the thread-locker to bond.



Troubleshooting.

If you need to re-adjust the angle, apply heat to the screw (with a heat gun or a hair dryer) for a few minutes to remove the thread-locker. Then, remove the screw.

Don't forget to apply thread-locker again to re-adjust the angle.

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