



3DP Chuck Vise Assembly/Guide

Attribution of model design: [LockChuck](#)



Thank you for purchasing the Chuck Vise. This document will cover part identification, precautions, and assembly instructions.

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Part Identification



1. Bolt
2. Washers (2 or 3)
3. Clamp
4. Pivot Ball
5. Wing Nut
6. Base

Precautions

1. **NEVER** apply a bending force to the pivot ball (4) stem or else it can break. This is not an issue when the Chuck Vise is fully assembled, as the bolt (1) provides the necessary rigidity. However, this is a 3D printed plastic part that can easily break if a bending force is applied to it **without** the bolt running through the middle of it.
2. Do not over-tighten the clamp (3) onto the pivot ball (4). You should be able to get the clamp tight enough that it won't come loose during operation. Over-tightening risks damaging the pivot ball stem.
3. Do not over-tighten the wing nut (5) to the base (6). These are 3D printed threads that can be damaged by over-tightening. It really doesn't take much tightening to secure the pivot ball (4) and attached clamp (3) into the correct orientation for use.
4. The pivot ball (4) and socket in the base (6) may bind more than expected when trying to make adjustments. These parts will break in together over time. You can simply loosen the wing nut (5) more to allow for more play between the parts in the meantime.

Assembly

Step 1

Pass the bolt (1) through the base of the pivot ball (4) so that the threads of the bolt are coming out the top of the pivot ball stem. **Hold the bolt in the pivot ball, at the base, with your index finger** until the clamp is installed in a later step.



Step 2

Place all provided washers on the threads of the bolt (1).



Step 3

Place the wing nut (5) over the stem of the pivot ball (4) in the orientation shown below.



Step 4

Screw the clamp (3) onto the bolt (1) **while continuing to hold the bolt in the base of the pivot ball (4) with your index finger. DO NOT** over-tighten the clamp onto the bolt. It just needs to be tight enough to not easily come loose during use.



Step 5

Screw the entire assembly from step 4 onto the base (6) to complete the vise assembly.



Step 6

Clamp your lock in and pick the damn thing already! ;)