

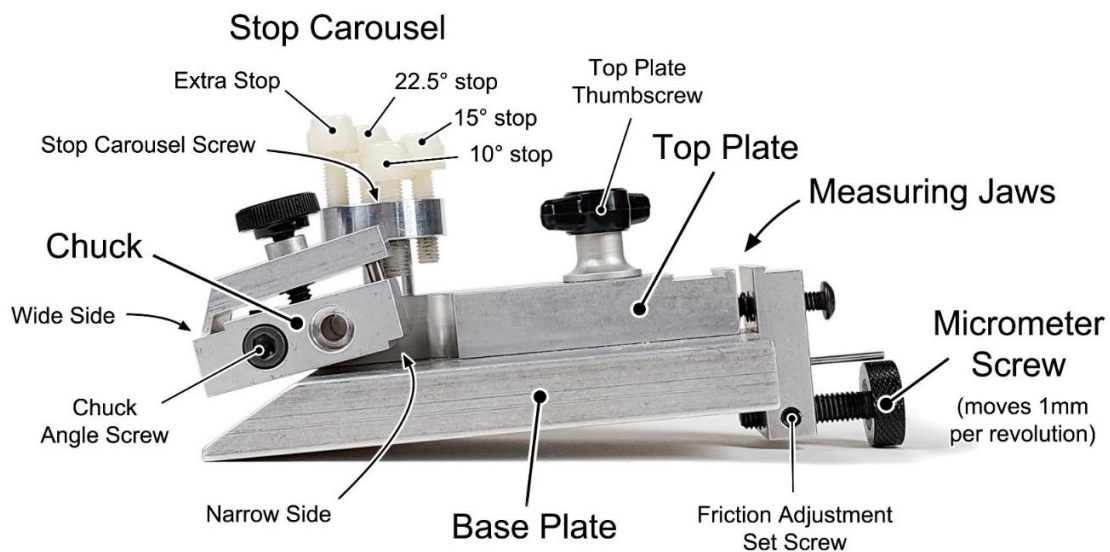
Fitting a New Frog Slide with the Alberti Frog Slide Fixture

1 PREP

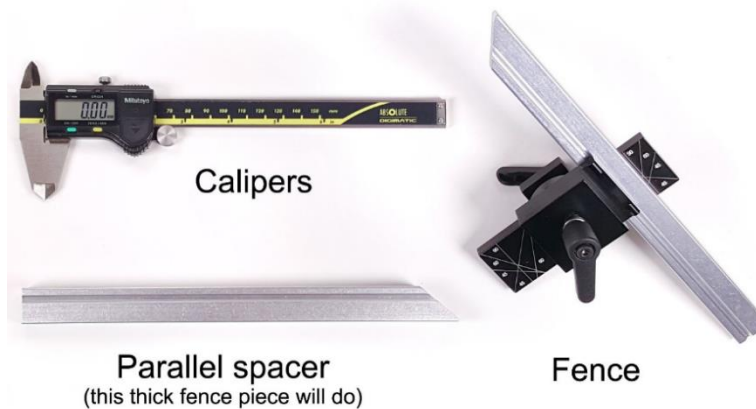
1.1 IMPORTANT NOTES

1. Always clamp the slide **pearl side up**.
2. For the slide to taper in the right direction, its wooden protrusion and the throat of the frog must be **facing opposite directions** when sanding the second edge in sections 5 and 6.

1.2 ANATOMY OF THE FIXTURE



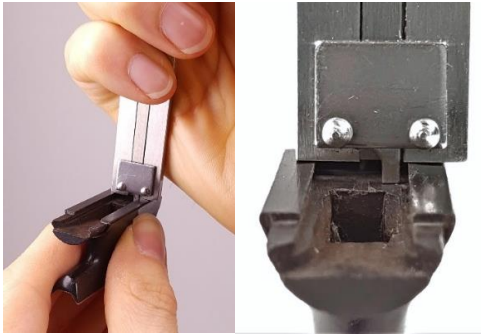
1.3 OTHER EQUIPMENT



2 SLIDE THICKNESS

2.1 MEASURE DOVETAIL DEPTH

Measure depth of slide dovetail in frog with the end of a caliper. Check it in all four corners and the middle of the frog.



2.2 SAND SLIDE THICKNESS

Sand the wooden backing on the pearl slide to conform to the frog by checking with calipers and leaving the thickness slightly greater than the dovetail depth.



3 FIXTURE PREP

3.1 SQUARE THE MITER FENCE

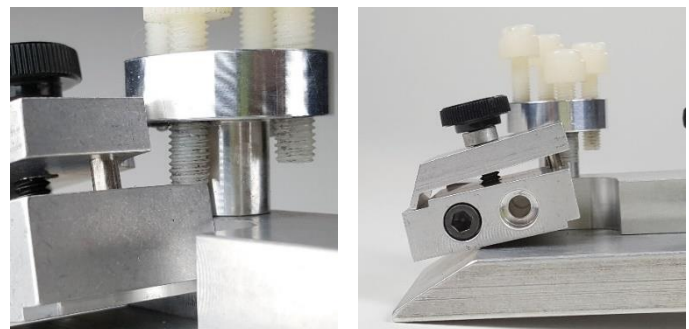
Square the fence with the disk using a square or the base plate of the frog slide fixture itself. Check it twice, as it must be perfectly square.

The front of the base plate is machined square for this purpose, but it won't be able to reach the disk without adjusting the micrometer screw almost all the way out. It's faster to put a parallel spacer (like the thick fence piece) between the fixture and the disk as shown.



3.2 SET DOVETAIL BEVEL ANGLE (IF NEEDED)

1. Loosen the chuck angle screw and stop carousel screw
2. Position desired stop above corner of chuck
3. Tighten the stop carousel screw
4. Rotate the chuck up against the stop
5. Tighten the chuck angle screw
 - Take care that the chuck doesn't rotate away from the stop while tightening



3.3 ALIGN TOP PLATE WITH BASE PLATE

1. Loosen top plate thumbscrew
2. Square the top plate with the base plate by laying the fixture on its side on a flat surface
3. Tighten thumbscrew



4 TRUE THE FIRST EDGE

4.1 CHUCK THE SLIDE

Clamp the slide in the chuck as shown with the pearl side up and wooden protrusion to the right.



4.2 SAND THE FIRST EDGE

Place the frog slide fixture against the fence and true the first edge of the slide by sanding until the entire side has just been sanded away.



5 TRUE THE SECOND EDGE

5.1 PLACE FROG ON MEASURING JAWS

Rotate the slide in the chuck as shown, with the wooden protrusion to the left and the pearl side up.

Place the frog on the measuring jaws as shown.

Make sure the wooden protrusion of the slide and the throat of the frog are **facing opposite directions**.

5.2 SAND THE SECOND EDGE

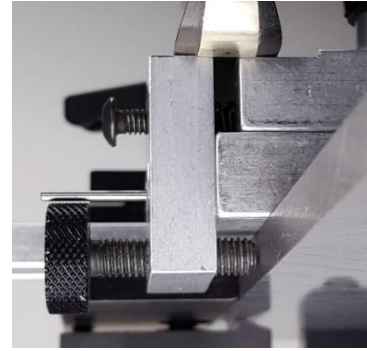
True the second edge like you did the first edge: with the frog slide fixture against the fence, sand until the entire side of the slide has just been sanded away.



5.3 SET MICROMETER SCREW

Turn the micrometer screw in until it touches the table, then crank the sander to make sure the screw is seated and the sander is no longer removing material.

If you have enough material on the slide blank, you can turn the screw out to zero and then sand until the screw touches the table again.



6 FINISH SECOND EDGE

6.1 MEASURE WIDTH OF JAWS AND SLIDE

1. Slide frog off jaws
2. Measure with calipers in middle of jaws to get an estimate of the dovetail width
 - a. **Warning:** If the dovetail is deeper than the jaws are tall, then they won't seat into the corners of it and this measurement will be narrower than the actual dovetail width. If the dovetail is too deep, treat this measurement as a low estimate of the dovetail width and fit some scrap wood (popsicle sticks) into the frog before fitting the real slide.
3. Remove slide from chuck
4. Measure with calipers in middle of slide



6.2 SAND OFF REMAINDER

Use the micrometer screw to sand off difference in width from slide, checking the slide's fit periodically.

The screw moves 1mm per revolution.



6.3 SAND PEARL TO FINAL THICKNESS

Sand pearl side of slide to final thickness.

