

Instructions For Extension Gates Set Up & Adjustment

Once the extension has been fitted to the instrument, and the fingerboard has been dressed, i.e., shaped, it is time to mount the gates and find the correct position for each one. Both supplied wrenches will be required for step 4, all others can be accomplished with the wrench of standard thickness.

In the case of a 3/4 size instrument the gates will be positioned as follows: The E gate will rest in line with the nut, the approximate position of the other gates will be C gate at 10 1/2 inches from the end of the fingerboard, the C# at 7 7/8 inches, the D at 5 1/4 inches, and the D# at 2 3/4 inches.

- 1) Loosely attach all gate assemblies to the track on the side of the extension and bring them to their approximate positions. 'Hand tighten' the side nut, and then 'back off' slightly so that the gate pillar can be rotated
- 2) Rotate the gate pillar clockwise or anti clockwise as required so that the gate 'cinches' the string against the fingerboard as it moves over the string. Now gently tighten the side nut and check that the gate comes to rest at right angles to the fingerboard just as it cinches the string tightly. This adjustment may require a trial-and-error approach; don't lose patience!
- 3) At this point an electronic tuner can help to find the precise position necessary for each gate to produce the desired pitch; just loosen the side nut enough so that the gate assembly can be moved up or down the track to raise or lower the note as needed.
- 4) To finalize the gate adjustment, check to see that all gates move freely but not loosely; each one must resist movement when not engaged. To adjust this characteristic the two nuts at the top of the gate pillar must be loosened (or unlocked) from one another so that they can rotate independently. This procedure will require the use of the thinner wrench being placed on the 'lower nut', while the standard one is used on its companion.
- 5) Now: to add more friction simply rotate the lower nut downward (clockwise), or upward (anti clockwise) to reduce friction. When the right resistance has been found, hold the lower nut in position while tightening the upper nut against it, thereby locking the two nuts together. By doing this neither nut will be able to rotate even as the gate is moved.