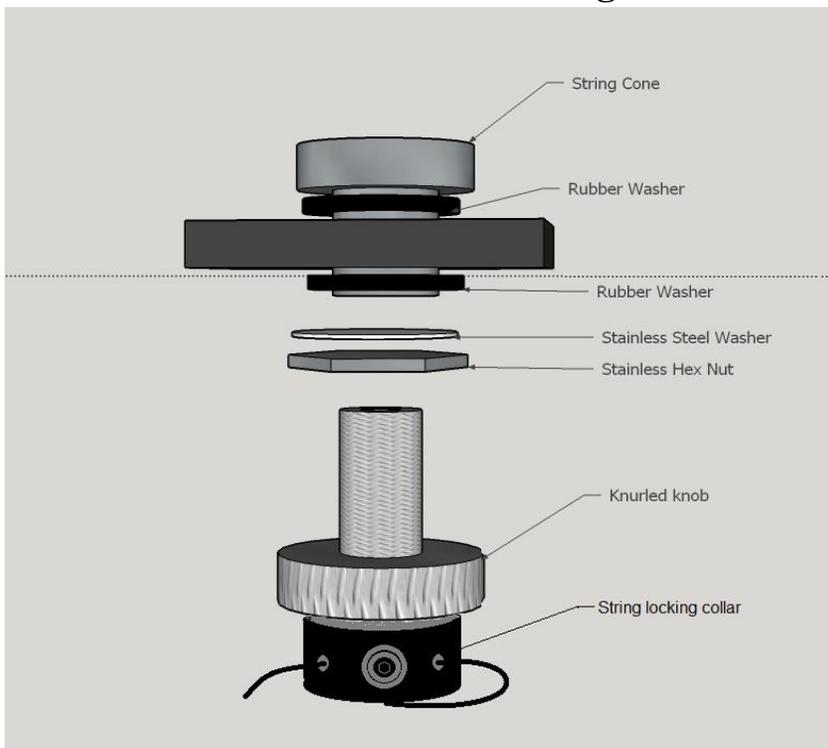


Alpaca Pull© Tuning Machine Installation and Tuning Instructions



Installation

- 1) Unscrew the knurled knob from the string cone by turning clockwise (because it has a left-hand thread) and remove the hex nut, stainless washer, and at least one rubber washer. Installing a rubber washer on the topside of the headstock is not necessary, but it may be desirable to prevent scarring, or to raise the height of the tuner.
- 2) Insert the string cone into the 3/8" (10mm) tuner hole on your guitar from the face (front side).
- 3) Install the 2nd rubber washer, the stainless washer, and nut onto the threaded side of the string cone. Tighten very carefully using only enough force to slightly compress the rubber washers.
- 4) Before threading in the knurled knob, put a SMALL amount of graphite lubricant or lithium grease on the threads to ensure smooth operation.
- 5) Thread in the knurled knob and turn in (counter clockwise) and out (clockwise) to its extents at least twice to smooth out the motion.

To Install Strings

- 1) Screw the knurled knob all the way in so it is fully compressed.(counter-clockwise)
- 2) Loosen the small set screw in the brass collar 2-3 turns.
- 3) Insert the string in through the top of the tuner and through the brass bearing.
- 4) For the larger wound strings you may need to loosen the set screw a few more turns.
- 5) Pull the strings tight and lock them in place by tightening the set screw. Be careful not to over tighten the set screw! Use only enough pressure to hold the string in place.
- 6) For the smaller strings, pull them tight, bend them over and then thread them through the side holes before locking them in place by tightening the set screw. Be careful not to over tighten the set screw! Over tightening will strip the threads.
- 7) Don't snip the strings flush until you are assured that the strings can be brought into tune.