

*We are planning to provide our customers with tips and helpful suggestions regarding the installation and use of our Finetune-Pegs. If necessary we will also post them on our website and add them to our instruction leaflet every now and then.*

## ▶▶ **Valuable directions of a well-known Luthier:**

### → **Mounting of the WITTNER Finetune-Pegs:**

*When mounting the WITTNER Finetune-Pegs please take into account that compared with wooden pegs they slide a bit further into the peghole as an experienced violinmaker is used to.*

*The WITTNER Finetune-Peg has to be pressed into the peghole a bit stronger than any wooden peg since you only push it into the peghole rather than screw (turn) it in like any wooden pegs.*

*And again: **Don't PULL but PUSH the WITTNER Finetune-Peg from behind.***

*We strongly recommend that to start with the peg closest to the scroll of the instrument (a-peg on the violin) because usually here the pegbox wall is thinnest. Using a reamer you should very carefully approach the correct diameter so the peg is not yet at its final position (+ 0,5 mm). Now make a mark on your reamer and equally carefully ream the holes for the remaining pegs. It is especially important to check the correct position of the pegs on the inside of the pegbox. At the thicker end of the peg the spool has to reach into the pegbox wall a little bit.*

### → **Converting instruments with the WITTNER Finetune-Pegs:**

*Before mounting the Finetune-Pegs the pegholes have to be cleaned from any residue of peg lubricant using a matching reamer. Otherwise a sufficient grip to keep the pegs in place can not be guaranteed.*

***Before mounting the strings it is recommendable to have all 4 Finetune-Pegs firmly in its place, then start to mount the strings "G – E – D – A".***

**Q.:** **The Finetune-Peg is firmly pressed in to the pegholes however is a little bit loose in the peghole at the knob side?**

**A.:** *If the peg sits firmly in the peghole opposite to the knob the Finetune-Peg still operates normally.*

**a) FAQs regarding the installation of the Finetune-Peg:****a1) Q: Can the peg-shaft (excluding the spool) be worked on?**

A: *Yes, with sandpaper.  
Due to the construction of the peg "shaping it with a peg shaper is not possible"*

**a2) General remark: „Too long strings!“**

On some strings the coloured part on the peg end is so long that there will not be enough space to completely wind it up – winding next to winding - on the spool. In this case it is advisory to shorten the string by 1/2 Inch to 1 Inch. There is no need for more than 3 or 4 windings of the string on the spool.

**Q.: What could be done if the spool extends too far into the pegbox which certainly never was intended when mounting?**

A:

- 1) *In this case greatest care has to be taken that the string is NOT wound on the fixed part of the Finetune-Peg, but solely on the spool.  
Otherwise the string is very likely to break.*
- 2) ***When mounting the WITTNER Finetune-Peg additional care has to be taken to the fact that the peg needs to be **PRESSED** into the pegholes a little further than a wooden peg of the same diameter. This is important to ensure a firm fixation of the peg.** (The wooden peg is pushed into its hole and then fixed with a rotating movement and a little pressure.)*
- 3) *Therefore it is advisory to ream out the pegholes a little bit smaller than for wooden pegs when mounting the Finetune-Pegs. Then the Finetune-Peg must be **PRESSED** firmly into the hole leaving a little extra „room“ to push it inwards even further if necessary due to climatic changes.*
- 4) *In case of the Finetune-Peg this final fixation of the peg has to be done without rotation, but with some extra pressure.*
- 5) *This ensures that the Finetune-Peg will sit firmly in the peghole and never rotate. Even not under extremely varying climate conditions. In addition there will be enough „room“ to **PUSH** the peg even deeper into the peghole if this becomes necessary.*

**b) FAQ's about tuning of the WITTNER Finetune-Peg:**

**b1)**When turning the peg (tuning the instrument) you can feel the gear unit or rather the gears move in very small increments.

**Q.:** Is it possible to precisely tune the instrument i.e. finetune enough despite of these noticeable increments?

**A.:** Yes, Just solely focus on the tuning process. It does not make any difference how the gears are positioned. Even though the gear tooth engagement is noticeable the peg will lock in any position. This means the tuning operation can be conducted very precisely. The movement is uniform and the pegs are infinitely adjustable. Just focus on the tuning and not on the gears.

Explanation:

*The non-linear motion that is noticeable when tuning the pegs is due to constructional details – resulting from an infinitely variable self-locking gear unit. This ensures that the Finetune-Peg can be positioned precisely and securely in any position.*

*This self-inhibiting gear unit renders any other catching mechanism superfluous, e.g. elements that underlie friction and subsequently wear.*

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