

Concert Monochord

MO-30 K for sound experience and performance



The Concert Monochord is the advancement of the pythagoras monochord and can be used to as an accompanying or melodie instrument. It is the perfect monochord for the user that wants more as it includes the spherical sounds of a monochord with the effects of the tampura and the possibility to insert 8 bridges for a Koto section.

Basic configuration

20 strings tuned in c, 5 in C and 5 in g.

Ash & cherry wood, size $53 \times 12 \times 4$

Included: Tuning key, tuner, some replacement strings, 8 koto bridges and tuning template.

Basic Tuning

We recommend a tuning to C but the Instrument can be tuned a tone up or down (B-D).

20 overtone strings c (b-d)

You can use the 8 koto bridges to tune 8 of the 28 overtone strings. Please refer to page 4 how to tune the Koto bridges.

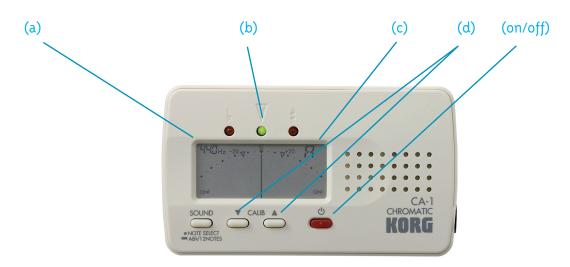
5 bass strings G (F-A)

5 bass strings C (B-D)

The strings can be tuned a full tone higher or lower than the recommended base tone c (b,c,d)

The bridges on the monochord side can be moved up or down to change the string length. The default position for the bridge is approximatley 2 3/4" from the end.

The tuner



This compact and easy to use tuner encompasses the whole range of tones from C1 (32,70Hz) to C8 (4186,01Hz)

Our recommendation for the tuning is to set the tuner to 432 or 440 Hz (a).

If there is set an another frequency you can change this by pressing the button (d).

This tuner works best when used in a low noise environment.

This tuner displays the notes like this: C,D,E,F,G,A,B, no matter which octave.

For example c' and c will be displayed as "C".

The included tuner is designed to be used in a silent environment if you have to tune in a noisy environment we recomment a clipon tuner (CA-AW3G) or a contact microphone (CA-CM200). This allows you to tune independent of the noise level around you. Both are available through feeltone.



We ship the instrument pretuned. But because strings and wood are reacting with temperature you will need to tune the instrument upon arrival and after a couple of retunings it will keep its tuning for long period of time.

Let the instrument rest and acclimate to the new surrounding. After the instrument was unpacked and had rested for a day use the tuning key and the tuner coming with the instrument to tune it.

The tuning process

Please notice that you only need to move the tuning key slightly, one degree at a time to chance the note.

For example half a turn of the tuning key will move the tone up several notes and could even cause the string to break.

The setting for the tuner can be between 440 -432 Hertz (Hz). Use 432 Hz for a natural harmonic tone. If you are playing this instrument together with other kind of traditional instruments use 440 Hz to be compatible. You find more information about this topic in the internet.



First tuning:

This example assumes you are tuning the instrument to C. Put the tuning key onto the first peg, plug the string and look at the tuner (Which you have turned on and set to 432 or 440Hz).

- -> displayed tone is C and the needle is left from the center or displayed tone is even a deeper note (A#/B)
- = the tone is to low, you need to tighten the string
- --> to tune to a higher pitch you have to move the tuner clockwise \cup{to}
- -> displayed tone is C and the needle right from the center or displayed tone is even a higher note (C# / D)
- = the tone is to high, you need to loosen the string.
- --> to lower the pitch you have to turn the tuner counterclockwise \circlearrowleft

Just listen to the sound and you will get into it quickly.

The string is tuned correctly when the needle of the tuner is in the middle and the green LED (b) is on. Tip 1: If you didn't meet the tone exactly, loosen the string a little bit and start it again.

Tip2: Try to much the exact tone with a slow and smooth turn of the tuning key.

Continue to tune the other strings. Because the pegs are on the right and on the left side, it might be easier to tune the pegs on one side, then turn the instrument around and tune the other side.

Second tuning:

We recommend a proper tuning every day for at least two weeks. Don't worry if you don't have time every day, even if you tune every other day it just takes a little bit longer for the instrument to stabilize.

After this period the tone will be stable for a long time and even under changed conditions. Perhaps you think that tuning is a lot of work. But this procedure helps you to connect to the instrument, to hear the right tone, the overtones and other sound phenomena.

If you use sound in pedagogic or therapeutic settings, you can use the event of tuning as a kind of awareness test. For a clear, overtone rich sound, a proper tuning is very important!

The Tuning process for koto

The Koto part of the Concert monochord is related to the japanese harp like Koto music instrument.

We have included a tuning template that will guide you to tune the Koto part of the instruement into a japanese tuning scale.

Insert the template as shown in the picture. Place the singel string bridges in the spaces marked in the template. The bridges should slide in easily otherwise loosen the strings a bit till they can be inserted easily.

After that you can tune the strings to the tone marked on the template. Play the string by strumming it and play the part of the strings between the singel string bridges and the tuning peg side.

After you tuned the Koto side to the suggested tunes you can change the tone by sliding the bridge up or down.



Koto bridge

How to play

Monochord - creates a relaxing overtone rich sound

If you intend a relaxing effect we recommend to play smooth and steady on the monochord strings to create an even sound wave. Imagine a small, long wave that rolls back and forth on the beach.

- a.) Put one finger (middle or ring finger) of the right (or left) hand in the center of the first string and run it smoothly across all strings. Before the finger is at the end, the finger of the other hand starts at the first string. You can alternate both fingers fluently. After a short period you will hear bright overtones coming up and rolling with the movement of your fingers.
- b.) Now after you have established the basic tone you can start varying the tone: Try out what happens when you play with the tip or the center part of the finger. By keeping the "flow" movement of the fingers, move one finger to another part of the strings and play there other overtones will come up.
- c.) Also the strength and speed of your motion changes the sound quality.

Koto - creates a melodic harp like sound

If you have the monochord in front of you with the perls to the right and the tuning pegs to the left.

The left part of the string, the one toward the tuning pegs is played by plucking the strings. You can either use a plectrum or plug the strings with your fingers.

The right part of the string, the part toward the tuning perls is used to vary the tone that is created by plucking the left side of the string. You can either push down on the right side or move the string to sidewards to modify the tune.

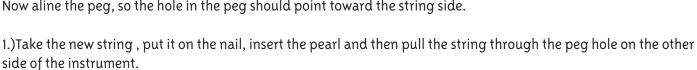
For another effect you can use a violin bow to play on either sides of the brige.

How to replace a broken string

If a string is broken, first remove the string completely. Keep the pearl as you will need it for the replacement string. Look at the other strings of the same typ: how often are they twisted around the pegs? Please turn the peg of the broken string counterclockwise just as often!

If you don't do this the peg will be pushed deeper and deeper in the wood during the tuning process and either the peg will break or the wood will split.

Now aline the peg, so the hole in the peg should point toward the string side.



- 2.) Take 1/2 inch of the end of the string and bend it down at a 90 degree angle, using your fingers or a small pliers. Than pull the string back so the bent down piece of the string points downwards at the peg. You want the first two winding of the string to go over the bent down piece of string. If this sounds confusing just look at the other pegs which already have strings on them so you see the end result.
- 3.) Start to turn the tuning key clockwise to slightly tighten the string. Guide the string so that the first two windings of the strings will be over the bent down end of the string the next ones below that.
- 4.) When there is no more slack but the string is not tight yet you can start the tuning process. But first make sure the string at the end of the pearl is in the notch of the wood.

Now you can start the tuning process (see "the tuning process").

Important only use the original strings as they are custom made to fit the instrument.

Check out our videos on YouTube at the feeltone products channel!

Here you will find more information about our instrument, exampels how to play them, tuning tips and more. www.youtube.com -> channel enter Feeltone

https://www.youtube.com/channel/UCVsN6xeKSfgwZODzRAMt38g

Care and warranty instructions

Wood is a natural material that is alive and reacts with the temperature and humidity. Treat the instrument like you would treat a violin, harp or other fine wood string instruments.

All string instruments appreciate an even room temperature to stay in tune. If the air is too hot and dry, the wood can dry out and it can form cracks!

We recommend to keep the humidity between 50%-60%!!!

Care Instruction and Tips to create the best environment for your Instrument:

Don't expose the instrument to extreme temperatures, chose a moderate room temperature.

You can use an air humidifier during the heating period in the winter month or if you live in a dry climate.

Plants in the room with the instrument will help to regulate air moisture.

Important: especially if you have floor heating, never set a wood instrument on the floor as this will destroy your instrument by drying out the wood which will result into the wood cracking.

Please note that our warranty is voided, if the instrument was exposed to high temperatures or dry air.





Feedback

We love to hear back from you about your experiences, suggestions or comments while working with our instruments.

You can email us at: info@feeltone.com

Customers from the United States please contact: gabriele@schwibach.com

