

Markwood Heavenly Strings & Cases

809 W First St, Phoenix, OR 97535

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Instructions for Computerized Stringing Design Form

Don't worry. We have been doing this since 1992 and will walk you through it. Because all folk/Celtic/lever harps have different harmonic curves and note ranges the strings need to be designed specifically for each harp, unless it is a known builder and model.

Please include \$35 payment with this form. Gut string designs, pedal harp, and other instrument string designs are \$40.

String #1 is the shortest string.

Measure the string lengths in inches to the nearest 1/4", in the smallest denominator. The string design program works only with inches.

Measure only the speaking or vibrating length of the string. Measure from the soundboard string hole to the bridge pin, **not the tuning peg**. (See attached)

Please be sure to tell me if your harp does not have bridge pins. (See attached)

Beginning in the left column, you will see “#” “length”. Mark the vibrating length of each string in the “Length” column, by their appropriate number.

Measure the size of the **inside** of the eyelet or string hole. **This is so the string will go through the string hole.** This is especially important for wound nylon strings. (See attached)

Please mark where the wound strings start, if any, and where the metal strings start, if any.

Tell us the string number of Middle C so we can tell the note range of the harp. Or count down to any red string and tell us the string #.

Tell us if your harp is metal, nylon, or gut strung. We can design for gut and then you can order them by string gauge from Lyon & Healy West.

Tell us anything else that may be good to know about your harp, such as, if there are structural problems, cracks, bowing soundboard, or a bent neck.

When harp strings are designed, the strength of the harp is taken into consideration, as well as what the harpist desires as far as sound and tension. A 36 string harp can have over 1200 lbs of pressure from the strings.

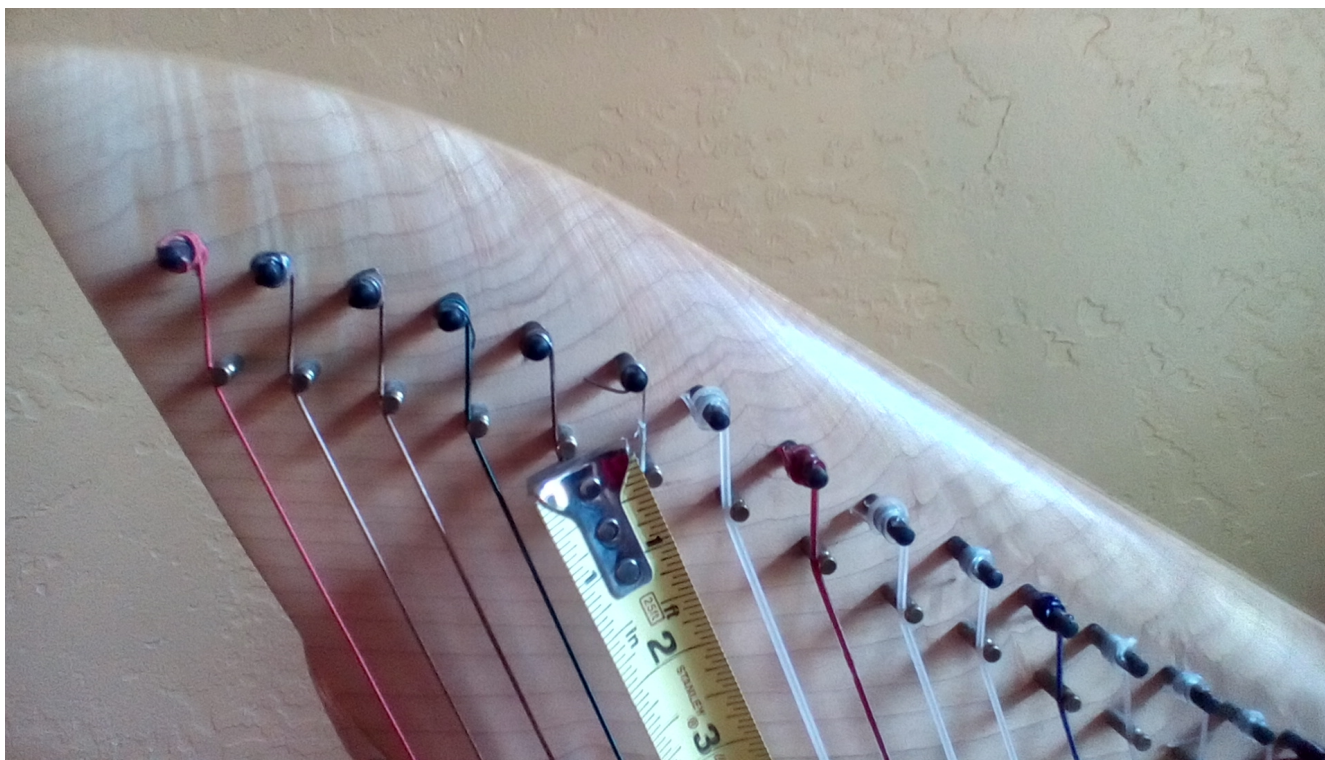
String design is based on the information you give us. Strings are custom made and not returnable. This is why we require accurate information. In the case of human error, we will work through it.

MEASURING THE VIBRATING LENGTH OF A STRING.

It is very important to measure the vibrating length to the bridge pin, not the tuning peg. It can really throw off the winding especially for nylon/nylon strings.

You can see on the string that is next to the red one that it is okay for the winding to go around the tuning peg, but only the core should go through the peg.

Having the correct vibrating length will prevent the winding being too long. And if you cut a wound nylon string the winding will unravel and ruin the string.



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- ~~ Please count the shortest string as #1
- ~~ Please mark where the wound strings start.
- ~~ Please mark where the metal strings start.

#	Vibrating Length	#	Vibrating Length
1	_____	21	_____
2	_____	22	_____
3	_____	23	_____
4	_____	24	_____
5	_____	25	_____
6	_____	26	_____
7	_____	27	_____
8	_____	28	_____
9	_____	29	_____
10	_____	30	_____
11	_____	31	_____
12	_____	32	_____
13	_____	33	_____
14	_____	34	_____
15	_____	35	_____
16	_____	36	_____
17	_____	37	_____
18	_____	38	_____
19	_____	39	_____
20	_____	40	_____

Read the instructions first.

Date _____

Name _____

Address _____

Phone # _____

Email address _____

Name of Harp Maker _____

Model Name _____

Count the shortest string as #1

A-440 is # _____

Harp is: nylon strung _____

metal strung _____

gut strung _____

This information is helpful for us to design a tension that is appropriate for the strength of your harp.

Harp is to be: lightly strung _____

medium strung _____

Heavy strung, like a pedal harp _____

The size of the string holes in the soundboard are necessary so the strings will fit through them.

See attached "How to Measure String Holes"

Interior diameter of string holes is as follows:
Count the shortest string as #1

Interior diameter is _____ from string # _____
to string # _____

and _____ from # _____ to # _____