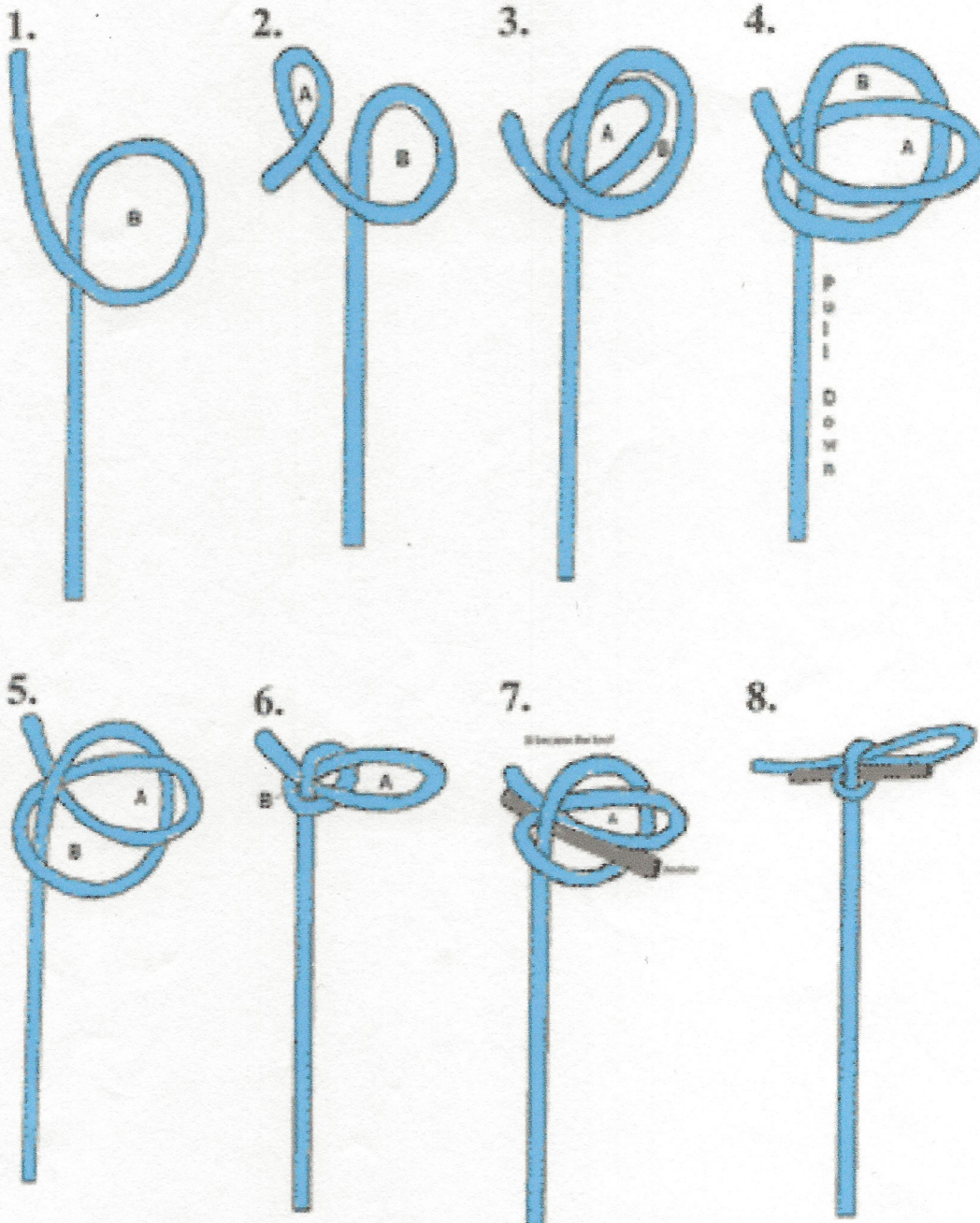


# How to Make a Harp String Knot



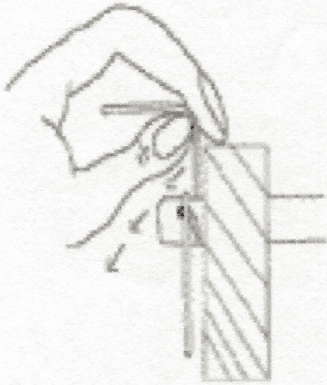
For 1st + 2nd oct. nylon, it is recommended to add a 2nd loop after # 8 ~~stage~~ above.



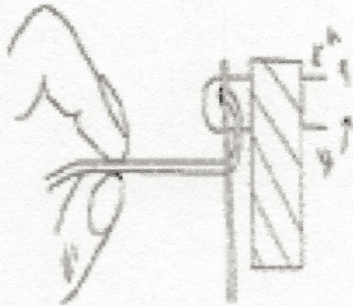
# How to Put on a Harp String



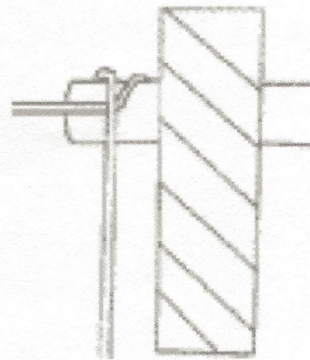
1.



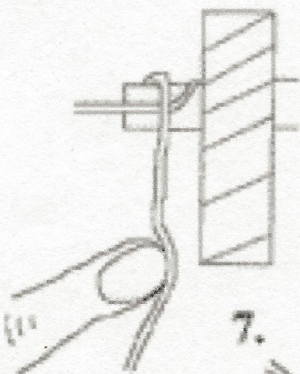
2.



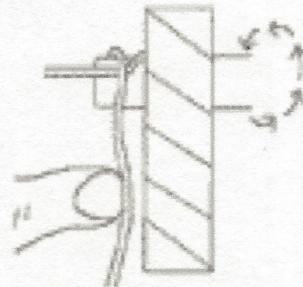
3.



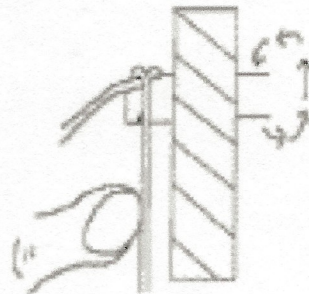
4.



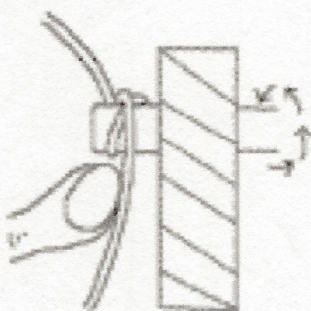
5.



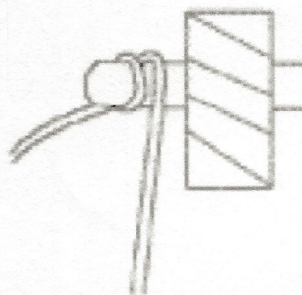
6.



7.



8.



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This for 1<sup>st</sup> oct thru 4<sup>th</sup> oct C strings.  
gut strings below 4<sup>th</sup> C do not need to be  
locked under as you wind.  
Do NOT use this for wire strings.

## CORRECT SETUP OF THE STRINGS

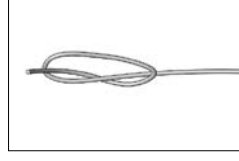
Below are some suggestions that will help in replacing the strings.

We recommend only the use of the types of strings indicated in the previous chapter "Description of the instrument" in the Strings section (page 10).

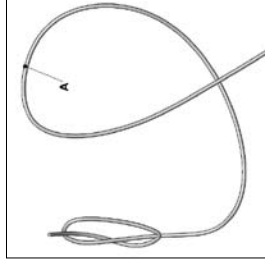
- 1 For convenience, we suggest inserting the string (with the exception of those in metal) through the centre strip rather than from the sound holes in the sound box.
- 2 To make the knots in the lower part of the nylon and gut strings, follow the indications below.

### Knotting nylon and gut strings

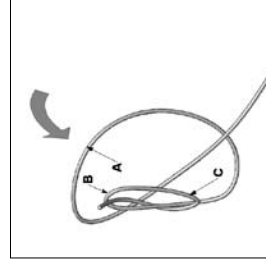
- 1 Make a simple knot in the string



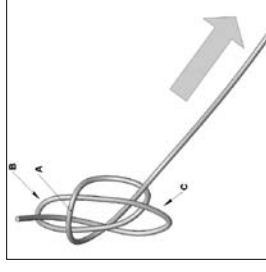
- 2 Make a loop as indicated in the figure



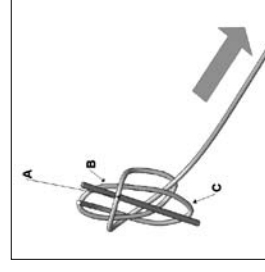
- 3 Overlap the loop on the knot in the direction indicated by the arrow, holding onto points B and C of the knot



- 4 Tighten the loop on the knot in direction indicated by the arrow, hold points B and C of the knot still

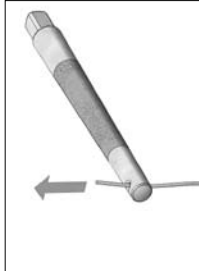


- 5 From the strings of the 3<sup>rd</sup> octave to the 0 octave, insert an anchor in knot by using a 2-cm piece of gut string in the 5<sup>th</sup> octave; tighten by pulling in the direction indicated by arrow, holding points B and C of the knot still

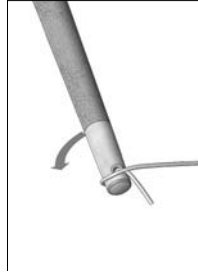


**Winding nylon strings of the 0 and 1<sup>st</sup> octaves and gut strings of the 2<sup>nd</sup> and 3<sup>rd</sup> octaves around the tuning pin**

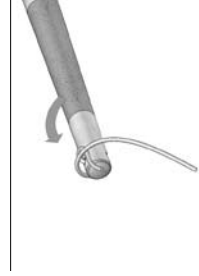
Thread the string into the hole of the tuning pin and pull in the direction indicated by the arrow (for the 0 and 1<sup>st</sup> octave strings, thread the string into the hole of the pin twice)



Use the tuning key to turn the tuning pin clockwise

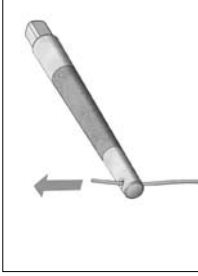


Make a loop and fix it under the string by turning the pin further clockwise

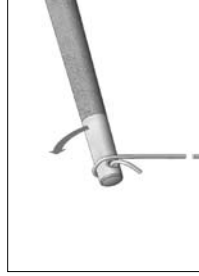


**Winding gut strings of the 4<sup>th</sup> and 5<sup>th</sup> octaves on the tapered tuning pin**

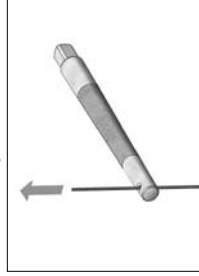
1 Thread the string into the hole of the tapered pin and pull in the direction indicated by the arrow. Continue turning the pin clockwise



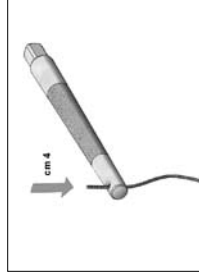
2 Turn the pin clockwise, taking care the keep the string to the right of the hole



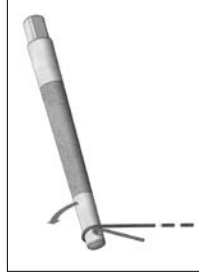
1 Thread the string into the hole of tapered pin and pull in the direction indicated by the arrow



2 Release the string pulling it out about 4 cm (2 - 3 fingers)



3 Turn the pin clockwise, taking care keep the string to the right of the hole



**Note:** The number of turns that the string makes around the tapered pin must never be excessive (no more than three) so that too strong an angle is created between the part of the vibrating string (under the nut) and the fixed part (between the nut and the tapered pin).