

REED MAKING

I. FORMING THE BLANK

Danzi Wide cane - available from Justin Miller @ PO Box 822, Wayne, PA 19087
Phone: 1-800-323-3216
www.millermarketingco.com

Measurements: collar 28 mm; 1st wire 26 mm; 2nd wire 18 mm; 3rd wire 6-7 mm

PREPARATORY STEPS FOR THIS SPECIFIC CANE:

When using this cane, one must first remove 2 -3 mm from the butt end of each piece to ensure proper length.

Take off some wood on edges, halfway from collar towards tip, with an xacto knife (10 - 12 scrapes) to improve side to center contour. Follow with sandpaper.

1. Mark measurements for wires.
2. Cut collar at the edge of the bark. Cane is very consistent and should be in same place each time.
3. Mark 6 - 7 scoring lines on bark from first wire mark to butt end.
4. Bevel on inside right corner of each end of cane. (gouged side)
5. Soak cane in hottest tap water possible for at least 20 minutes up to 24 hours.
6. Fold cane over at center line.
7. Place first and second wires on blank as tightly as possible, but not so tightly that wires cut into cane.
8. Begin shaping blank, inserting mandrel slowly and gradually moving it further into tube. Keep checking that wires are tight and begin working with pliers, first from top to bottom, then GRADUALLY from sides, all the while working up toward the second wire.
9. Once blank goes on mandrel as far as required, once again check wires 1 and 2 for tightness and put on 3rd wire.
10. Let dry overnight. The next day, check wire placement, tighten wires and wrap. Cover wrapping liberally with duco cement. Let dry on drying rack or mandrel overnight or for several hours. Cut tip at 29-30 mm from middle of first wire.

II. TRIMMING - FIRST DAY

1. Sand blades all over.
 - a. CHECK accuracy of wire placements and correct as necessary.
 - b. Soak blank and CHECK for leaking at butt end.
Correct if necessary with wax.
 - c. CHECK for correct mandrel insertion and correct if necessary by reaming.
 - d. Tip width should be 15 mm. If wider, remove flair with knife or sandpaper.

2. Begin with tip. If reed crows (if you can get a sound!) scrape 3 - 4 mm forward on tip. If reed is harder, go further back, if softer, not as far back.

If you have access to a tip profiling machine, use it at this point, otherwise, scrape tip until desired thickness. Use knife, file, and sandpaper as necessary.

3. To improve response, work with knife on sides, working at a "v" toward tip. Don't let back get too heavy or ignore back. There should not be a big bump in the middle of the reed. File/sand it out.

Two important reminders when trimming reeds.

- A. Symmetry is very important. Whatever you do to one side should be mirrored in the other.
- B. One trims for two items:
 - 1 RESPONSE
 - 2 TUNING.

We are NOT trimming for sound, although this is a byproduct of a good symmetrical trim.

III. TRIMMING - DAYS 2 AND 3

BE PATIENT!!

1. Sand blades all over before soaking.
2. After soaking reed, think of it as a brand new blank and trim as necessary - at tip, sides etc.
If possible, consider using files and sandpaper only at this stage, and not necessarily the knife.

Womble/Williams Double Reeds
46601 W. Main Street
Northville, MI 48167
Phone/Fax 248-348-4621
rswilliams@comcast.net

Forming Bassoon Reeds with WW Profiled Bassoon Cane

Womble/Williams profiled bassoon cane can give you excellent results with a minimum of effort if you follow the following directions. The wire placement and cutoff length is critical so please use the dimensions indicated below.

Soak the cane in warm water a minimum of 30 minutes.

Score the cane from where the second wire will be to the back of the cane on both sides.

Fold the reed in half; make sure the collar lines up on both sides of the reed.

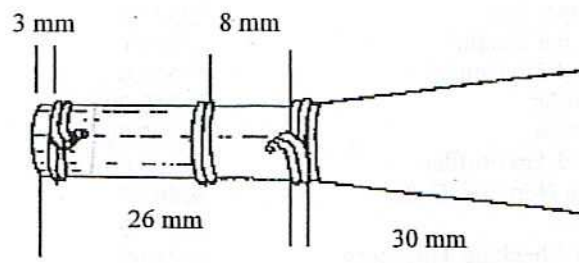
Place the first wire on the reed 26 mm from the butt side. Measure from the bottom of the wire, not from the center.

Place the second wire 8 mm below the first. This is also measured from the sides of the two wires, not from the center.

Wrap the blank with string from the bottom of the reed to just above the first wire.

Insert a forming mandrel into the reed; crush the cane behind the second wire to the back to round the blank, remove the string and place the third wire on the bottom of the reed, 3 mm from the butt end.

Tighten all wires and let blank dry a minimum of one day. Retighten all wires and wrap reed. Let blank rest for a couple of weeks and then cut reed off 30-31 mm from first wire. Try reed and trim as necessary.



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Price List 2006

| | | |
|------|---|-------------------|
| 2005 | WW English Horn End Pin | \$75.00 |
| 1201 | WW Bassoon Cane Gouged | \$1.50 |
| 1202 | WW Bassoon Cane Gouged-Shaped and Profiled | \$2.50 |
| 1204 | WW Bassoon Tube Cane, Argentina | \$22.00 per pound |
| 2130 | WW Bassoon Forming Mandrel Stainless | \$15.00 |
| 2130 | WW Bassoon Forming Mandrel Brass | \$12.00 |
| 2129 | WW Bassoon Holding Mandrel Brass | \$12.00 |
| 2213 | WW Razor Knife | \$40.00 |
| 2003 | WW Bassoon Reed Drying Rack 11 pins | \$45.00 |
| 2203 | WW Oboe Reed Drying Rack 11 pins | \$30.00 |
| 2004 | WW Bassoon Reed Drying Rack 6 pins | \$25.00 |
| 2015 | WW Bassoon Orchestra Bassoon Stand | \$150.00 |
| 2120 | WW Bassoon Orchestra Double Bassoon Stand | \$175.00 |
| 2125 | WW Bassoon Orchestra Contra Bassoon Stand | \$175.00 |
| 2207 | WW Sharpening jig for Rieger profiler blade | \$75.00 |
| 2152 | Bassoon Plaque | \$10.00 |
| 1302 | Bassoon Easel | \$15.00 |
| 2202 | Brass Wire 22 Gage ¼ lb. | \$6.50 |
| 2164 | Korg CA 30 Tuner | \$15.00 |
| 2165 | Korg MA 30 Metronome | \$25.00 |
| 2160 | Korg TM 40 Tuner/Metronome | \$30.00 |
| 2206 | Alcohol Lamp | \$10.00 |
| 2145 | GEM Bassoon Swab | \$12.00 |
| 2147 | GEM Bassoon Bocel Swab | \$5.00 |
| 2146 | GEM Oboe Swab with Tail | \$10.00 |
| 2122 | Rieger Bassoon Mandrel | \$20.00 |
| 2123 | Rieger Bassoon Spiral Reamer | \$75.00 |
| 2121 | Rieger Bassoon Diamond Reamer | \$75.00 |
| 1320 | Rieger Contra Mandrel | \$25.00 |
| 2124 | Rieger Contra Spiral Reamer | \$75.00 |
| 2157 | Rieger Bassoon Pliers | \$40.00 |
| 2186 | Rieger Bassoon Shaper Complete | \$220.00 |
| 2138 | Rieger Bassoon Shaper Tip | \$115.00 |
| 2201 | Rieger Bassoon Shaper Handle | \$115.00 |
| 2136 | Rieger Bassoon Reed Tip Cutter | \$150.00 |
| 2182 | Rieger Bassoon Profiler | \$1350.00 |
| 2185 | Rieger Bassoon Gouger | \$1200.00 |
| 2181 | Rieger Bassoon Reed Tip Profiler | \$1250.00 |
| 2168 | Rieger Oboe/English Horn Tip Cutter | \$150.00 |
| 2187 | Rieger Dial Indicator | \$250.00 |
| 2180 | Cane Snap Gage for Checking Thickness | \$125.00 |
| 2190 | Altieri Deluxe Bassoon Case Cover | \$120.00 |

Fox Accessories discounted 10%

Fox Instruments: call for pricing

Rieger prices can change with Euro exchange rate