

Reed Mapper

Instruction

Thank you for purchasing the Reed Mapper. This precision reed measuring device can measure all size single reeds with ease and accuracy. Designed with a Bluetooth feature, dimensional data from any reed can easily be sent and stored on your computer or smartphone spreadsheet app.

Below are the instructions for the Mapper. If you have any questions, please feel free to email us at: thereedmachine@gmail.com

The Mapper comes set with the clamp in the position for Bb clarinet and smaller reeds. By removing the clamp and placing it in the adjacent hole on the table, you can measure larger reeds. Simply unscrew it, making sure to keep the spring in place. The **reed clamp adjustment screw** on the back of the clamp is for changing the angle of the clamp to help hold reeds more securely. Experiment by raising and lowering the clamp angle until you have the best fit for your reed thickness.

Step 1: Zero Out the Digital Indicator

The Mapper dial should be calibrated to zero each time it is used. Power on the dial by pressing the power button. Place the dial tip anywhere on the reed table by simply pushing the table from left to right with your thumb and forefinger. Use the 2 arrows on the table to find different positions marked as 1-12 or L5-R5. Press the **ORIGIN** button on the dial and you will see a .0000"-.0005" base reading. Now you are ready to measure.

Step 2: Place Reed on Table

Lift the digital indicator by pulling up on the center rod. While pointer is in the raised position, slide the blue reed table forward by pulling. You will feel each location click as it moves. Loosen the reed clamp and slide a reed under the clamp. Move the reed gently forward to the reed tip bar stop and center the reed between the guidelines. Tighten the clamp.



Step 3: Bluetooth Connection

The dial indicator can be used with or without Bluetooth connectivity. To connect your digital indicator to any Bluetooth device with a spreadsheet program, hold the **DATA** button for 5 seconds or until it blinks blue. Your computer will detect it as a **"keyboard"**. If you use the manual function you will need to notate all measurements in a notebook.

Step 4: Create a Spreadsheet

There are 132 positions that can be measured on the reed table. For Bb reed it is recommend to use 35 positions. After each measurement make note of each dimension on a chart (see sample). To use the Bluetooth function, open any excel or worksheet program on a phone or computer. After each reading press the **DATA** button to transfer the information to the worksheet.

Step 5: Moving the Tables

The reed clamp table has 12 positions to measure the thickness of the vamp from tip to back. Starting with position 1 you can measure up the entire vamp of a reed. To set the Mapper Base Table into position, simply push or pull the table and use the readout on the top right corner. Practice by starting with the C (center) position and Table position 1. Here you can measure the center of the reed. Repeat the steps for I5, L4, L3, L2, L1, **C**, R1, R2, R3, etc.... You may not need all of the positions depending on your reed size.

Step 6: Adjusting Reeds

Measure several reeds and make note of the differences. This chart will be your guide for sanding. Circle any dimensions that are not exactly symmetrical. Make fine adjustments using 500-600 grit sandpaper to the thicker areas and remeasure. Always measure and keep dimensions of reeds as templates for future reeds.

(more detailed instructions are included for the digital indicator)

Blue Reed Rail Stop Instructions

Each Mapper comes with a blue rail stop. This bar can replace the reed clamp when single and quick spot checking of reed measurements are desired.

Step 1: Remove clamp, screw and spring from table. Store all three parts in plastic bag for future use.

Step 2: Place blue rail stop on table with the long arm to the back of the table. Secure in place with short knob. The u-slot will allow the bar to move to many angles. Center a reed and align bar to reed. Tighten the bar. This will allow you to repeat single measurement easily.

Step 3: To measure, lift indicator and push reed against the bar. Hold in place while measuring
Any point needed.



Reed Measurements Sample Chart

Name _____

Measurement (all measurement are in inches .0000")

Width at Tip	
Width at Heel/Butt	
Thickness at Shoulder/Middle	
Length of Vamp/Cut	
Overall Length	

Thickness

Reed #1

Tip: _____

Line 1	L:	Center:	R:
Line 2	L:	C:	R:
Line 3	L:	C:	R:
Line 4	L:	C:	R:
Line 5	L:	C:	R:
Line 6	L:	C:	R:
Line 7	L:	C:	R:
Line 8	L:	C:	R:

Reed #2

Tip: _____

Line 1	L:	Center:	R:
Line 2	L:	C:	R:
Line 3	L:	C:	R:
Line 4	L:	C:	R:
Line 5	L:	C:	R:
Line 6	L:	C:	R:
Line 7	L:	C:	R:
Line 8	L:	C:	R:

Sample Excel Worksheet

