

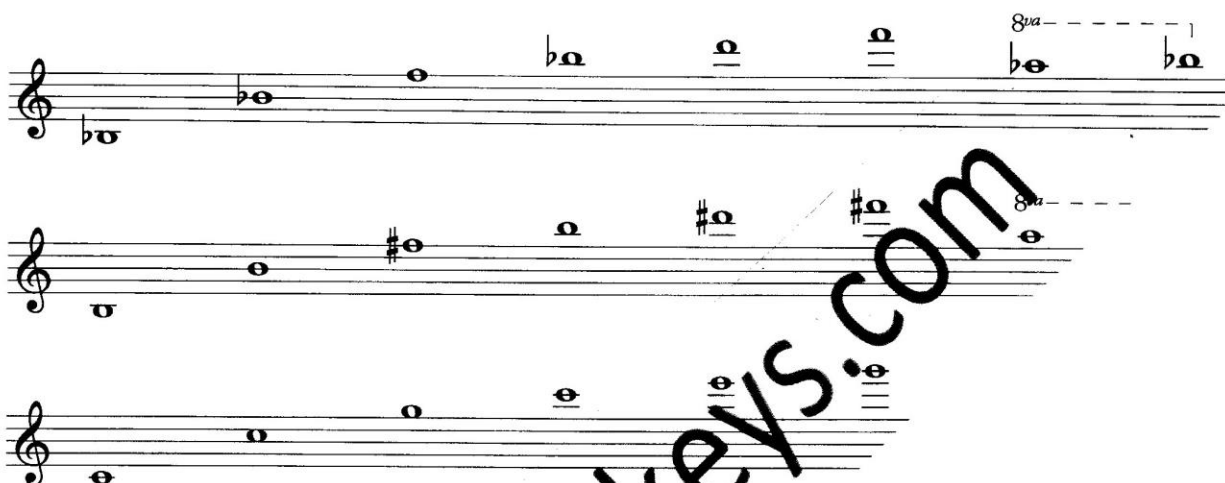
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By changing the embouchure and air pressure it is possible to bypass the fundamental, thereby causing one of the harmonics to be heard as the main pitch. For this purpose the saxophone embouchure needs to be stronger than normal (a stronger circle), with *slightly* more reed exposed within the mouth. This should be realized by a very slight forward movement of the jaw rather than taking more mouthpiece into the mouth.

The air pressure must be increased as the higher harmonics are attempted—the effect being a smaller quantity of air put to use. This technique will equate with a higher pitch on the mouthpiece alone, following the testing procedure described on page 7.

The following series of tones, the harmonic series, may be practiced on all the saxophones in the manner indicated. It will be evident that (1) the harmonics work less well as one ascends to the higher fundamentals—B, C, C#, etc.—and (2) the closed tube harmonics are more difficult on the soprano, owing to its short tube.



Closed Tube Exercises

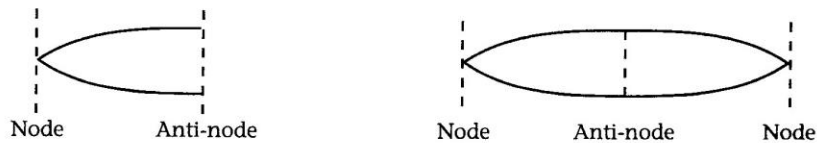


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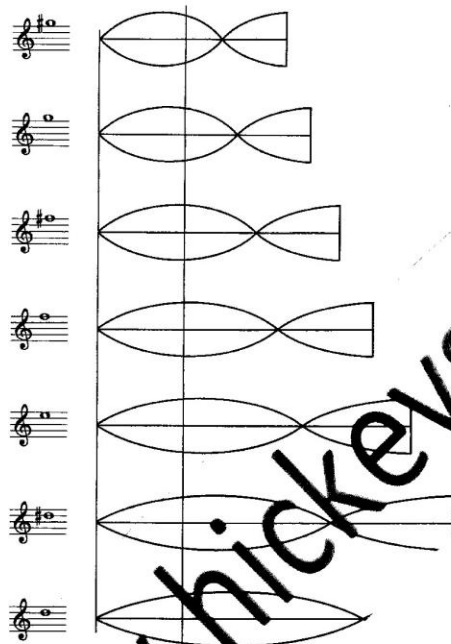
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Acoustics and Venting

In acoustical terms a vibrating air column produces a tone on a wind instrument, although this column of air does not vibrate uniformly throughout its length. The point at which it vibrates most vigorously is called an *anti-node*, while the point of minimum air motion is called a *node*.



When a wind instrument sounds its fundamental tone, also known as the *first mode of vibration*, the length of tubing involved is made up of one unit that contains one *node* and one *anti-node*. Two *nodes* and two *anti-nodes* are required to produce a tone one octave higher.



Position of lower octave keys in relation to air column position should coincide

The examples below indicate the approximate position position should coincide with the anti-node, an anti-node, a highly impractical proposition. Thus, a number



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As discussed earlier
fingering. Mar
when employing
phones p

Vent Key Exercises

Practice 1-6 without tonguing

♩ = 60



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HIGH TONE EXERCISES

Chromatic Patterns: Use as many combinations of modes as possible.



The image displays a series of musical staves for high tone exercises. The first seven staves show chromatic patterns in treble clef, with notes grouped by slurs and accidentals (sharps and flats) indicating different modes. The eighth staff is marked '8va' and shows a pattern on a lower line. The ninth staff is also marked '8va' and shows a pattern on a lower line. The tenth staff is marked '8va' and shows a pattern on a lower line. The eleventh staff is marked '8va' and shows a pattern on a lower line. The twelfth staff is marked '8va' and shows a pattern on a lower line. The thirteenth staff is marked '8va' and shows a pattern on a lower line. The fourteenth staff is marked '8va' and shows a pattern on a lower line. The fifteenth staff is marked '8va' and shows a pattern on a lower line. The sixteenth staff is marked '8va' and shows a pattern on a lower line. The seventeenth staff is marked '8va' and shows a pattern on a lower line. The eighteenth staff is marked '8va' and shows a pattern on a lower line. The nineteenth staff is marked '8va' and shows a pattern on a lower line. The twentieth staff is marked '8va' and shows a pattern on a lower line. The twenty-first staff is marked '8va' and shows a pattern on a lower line. The twenty-second staff is marked '8va' and shows a pattern on a lower line. The twenty-third staff is marked '8va' and shows a pattern on a lower line. The twenty-fourth staff is marked '8va' and shows a pattern on a lower line. The twenty-fifth staff is marked '8va' and shows a pattern on a lower line. The twenty-sixth staff is marked '8va' and shows a pattern on a lower line. The twenty-seventh staff is marked '8va' and shows a pattern on a lower line. The twenty-eighth staff is marked '8va' and shows a pattern on a lower line. The twenty-ninth staff is marked '8va' and shows a pattern on a lower line. The thirtieth staff is marked '8va' and shows a pattern on a lower line. The thirty-first staff is marked '8va' and shows a pattern on a lower line. The thirty-second staff is marked '8va' and shows a pattern on a lower line. The thirty-third staff is marked '8va' and shows a pattern on a lower line. The thirty-fourth staff is marked '8va' and shows a pattern on a lower line. The thirty-fifth staff is marked '8va' and shows a pattern on a lower line. The thirty-sixth staff is marked '8va' and shows a pattern on a lower line. The thirty-seventh staff is marked '8va' and shows a pattern on a lower line. The thirty-eighth staff is marked '8va' and shows a pattern on a lower line. The thirty-ninth staff is marked '8va' and shows a pattern on a lower line. The fortieth staff is marked '8va' and shows a pattern on a lower line. The forty-first staff is marked '8va' and shows a pattern on a lower line. The forty-second staff is marked '8va' and shows a pattern on a lower line. The forty-third staff is marked '8va' and shows a pattern on a lower line. 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The fifty-seventh staff is marked '8va' and shows a pattern on a lower line. The fifty-eighth staff is marked '8va' and shows a pattern on a lower line. The fifty-ninth staff is marked '8va' and shows a pattern on a lower line. The sixtieth staff is marked '8va' and shows a pattern on a lower line. The sixty-first staff is marked '8va' and shows a pattern on a lower line. The sixty-second staff is marked '8va' and shows a pattern on a lower line. The sixty-third staff is marked '8va' and shows a pattern on a lower line. The sixty-fourth staff is marked '8va' and shows a pattern on a lower line. The sixty-fifth staff is marked '8va' and shows a pattern on a lower line. The sixty-sixth staff is marked '8va' and shows a pattern on a lower line. The sixty-seventh staff is marked '8va' and shows a pattern on a lower line. The sixty-eighth staff is marked '8va' and shows a pattern on a lower line. The sixty-ninth staff is marked '8va' and shows a pattern on a lower line. The seventieth staff is marked '8va' and shows a pattern on a lower line. The seventy-first staff is marked '8va' and shows a pattern on a lower line. The seventy-second staff is marked '8va' and shows a pattern on a lower line. The seventy-third staff is marked '8va' and shows a pattern on a lower line. The seventy-fourth staff is marked '8va' and shows a pattern on a lower line. The seventy-fifth staff is marked '8va' and shows a pattern on a lower line. The seventy-sixth staff is marked '8va' and shows a pattern on a lower line. The seventy-seventh staff is marked '8va' and shows a pattern on a lower line. The seventy-eighth staff is marked '8va' and shows a pattern on a lower line. The seventy-ninth staff is marked '8va' and shows a pattern on a lower line. The eightieth staff is marked '8va' and shows a pattern on a lower line. The eighty-first staff is marked '8va' and shows a pattern on a lower line. The eighty-second staff is marked '8va' and shows a pattern on a lower line. The eighty-third staff is marked '8va' and shows a pattern on a lower line. The eighty-fourth staff is marked '8va' and shows a pattern on a lower line. The eighty-fifth staff is marked '8va' and shows a pattern on a lower line. The eighty-sixth staff is marked '8va' and shows a pattern on a lower line. The eighty-seventh staff is marked '8va' and shows a pattern on a lower line. The eighty-eighth staff is marked '8va' and shows a pattern on a lower line. The eighty-ninth staff is marked '8va' and shows a pattern on a lower line. The ninetieth staff is marked '8va' and shows a pattern on a lower line. The ninety-first staff is marked '8va' and shows a pattern on a lower line. The ninety-second staff is marked '8va' and shows a pattern on a lower line. The ninety-third staff is marked '8va' and shows a pattern on a lower line. The ninety-fourth staff is marked '8va' and shows a pattern on a lower line. The ninety-fifth staff is marked '8va' and shows a pattern on a lower line. The ninety-sixth staff is marked '8va' and shows a pattern on a lower line. The ninety-seventh staff is marked '8va' and shows a pattern on a lower line. The ninety-eighth staff is marked '8va' and shows a pattern on a lower line. The ninety-ninth staff is marked '8va' and shows a pattern on a lower line. The hundredth staff is marked '8va' and shows a pattern on a lower line.



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Patterns in Thirds

Use as many combinations of modes as possible.

