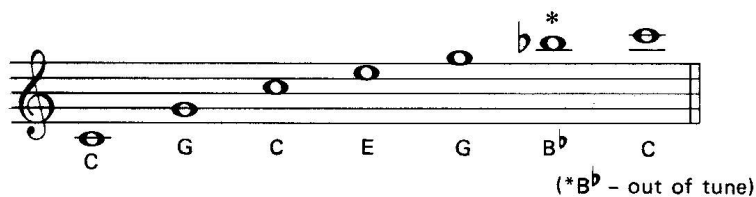


# How the Cornet and Trumpet Work

## Open Tones (No valves down)



The open tones and the tones possible for all valve combinations are also found on page 71.

## The Valves

Each valve, when depressed, adds a section of tubing to the overall sounding length of the instrument.

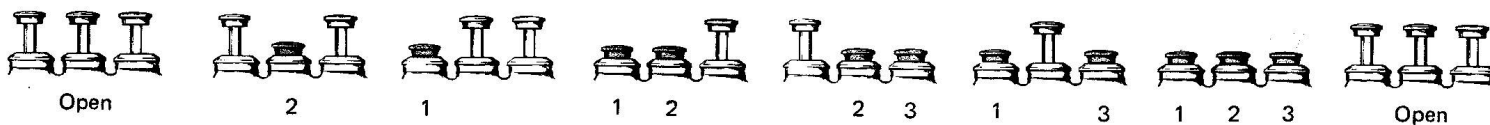
Examine the tubing connected to each valve casing. The second valve has the smallest section of tubing and the third valve has the largest section.

Depressing the second valve lowers any of the open tones 1/2 tone.

Depressing the first valve, which has more tubing connected to it, lowers the open tones one full tone.

Depressing the third valve, which is seldom used alone, lowers the open tones 1 1/2 tones. The length of the third-valve tubing is therefore equal to the combined length of the tubing connected to the first and second valves.

## How the Valves Affect Open G



(Lowers: 1/2 tone 1 tone 1 1/2 tones 2 tones 2 1/2 tones 3 tones)

## How to Tune

There is one main tuning slide and there is a single slide for each valve. Generally, the main tuning slide should be out 1/4" to play in tune. Extend this farther if the instrument is still sharp. If it is flat, push the tuning slide back to make the total tubing shorter. Sometimes a tuning slide on a particular valve should be pulled slightly to improve intonation. Until one becomes an experienced performer, it is difficult to make such a decision. Keep all the slides lubricated! (See pages v, vi, and 70.)

## Starting the Tone

The attack of a tone, soft or loud, requires a very special coordination between the breath and the tongue. On the cornet and trumpet, the tip of the tongue is poised behind the upper teeth. Lightly touch the back of the upper teeth with the tongue tip to interrupt the flow of air and stop the tone. Draw the tongue tip back slightly to release the flow of air and start the tone. A constant flow of air and the correct positioning of the tongue are the two most important points to remember. Avoid tonguing between the teeth and lips.