



### Overtone Chart for CC Tuba--"Old" Fifth Valve Tuning

Note: The fifth valve fingerings shown here are for a "major third" fifth valve.

The chart displays the following partials and their corresponding notes for 12 fingerings (0-11):

- 24th Partial (Sharp--Lower Slightly): G#4, G#4, G#4, G#4, G#4, G#4, G#4, G#4, G#4, G#4, G#4, G#4
- 23rd Partial (Very Sharp--Unusable): F#4, F#4, F#4, F#4, F#4, F#4, F#4, F#4, F#4, F#4, F#4, F#4
- 22nd Partial (Very Flat--Unusable): F4, F4, F4, F4, F4, F4, F4, F4, F4, F4, F4, F4
- 21st Partial (Very Flat--Unusable): E#4, E#4, E#4, E#4, E#4, E#4, E#4, E#4, E#4, E#4, E#4, E#4
- 20th Partial (Flat--Raise Slightly): E4, E4, E4, E4, E4, E4, E4, E4, E4, E4, E4, E4
- 19th Partial (Flat--Raise Slightly): D#4, D#4, D#4, D#4, D#4, D#4, D#4, D#4, D#4, D#4, D#4, D#4
- 18th Partial (Sharp--Lower Slightly): D4, D4, D4, D4, D4, D4, D4, D4, D4, D4, D4, D4
- 17th Partial (Sharp--Lower Slightly): C#4, C#4, C#4, C#4, C#4, C#4, C#4, C#4, C#4, C#4, C#4, C#4
- 16th Partial (Normal): C4, C4, C4, C4, C4, C4, C4, C4, C4, C4, C4, C4
- 15th Partial (Flat--Raise Slightly): B#3, B#3, B#3, B#3, B#3, B#3, B#3, B#3, B#3, B#3, B#3, B#3
- 14th Partial (Very Flat--Unusable): B3, B3, B3, B3, B3, B3, B3, B3, B3, B3, B3, B3
- 13th Partial (Very Sharp--Unusable): A#3, A#3, A#3, A#3, A#3, A#3, A#3, A#3, A#3, A#3, A#3, A#3
- 12th Partial (Sharp--Lower Slightly): A3, A3, A3, A3, A3, A3, A3, A3, A3, A3, A3, A3
- 11th Partial (Very Flat--Unusable): G#3, G#3, G#3, G#3, G#3, G#3, G#3, G#3, G#3, G#3, G#3, G#3
- 10th Partial (Flat--Raise Slightly): G3, G3, G3, G3, G3, G3, G3, G3, G3, G3, G3, G3
- 9th Partial (Sharp--Lower Slightly): F#3, F#3, F#3, F#3, F#3, F#3, F#3, F#3, F#3, F#3, F#3, F#3
- 8th Partial (Normal): F3, F3, F3, F3, F3, F3, F3, F3, F3, F3, F3, F3
- 7th Partial (Very Flat--Unusable): E#3, E#3, E#3, E#3, E#3, E#3, E#3, E#3, E#3, E#3, E#3, E#3
- 6th Partial (Sharp--Lower Slightly): E3, E3, E3, E3, E3, E3, E3, E3, E3, E3, E3, E3
- 5th Partial (Flat--Raise Slightly): D#3, D#3, D#3, D#3, D#3, D#3, D#3, D#3, D#3, D#3, D#3, D#3
- 4th Partial (Normal): D3, D3, D3, D3, D3, D3, D3, D3, D3, D3, D3, D3
- 3rd Partial (Sharp--Lower Slightly): C#3, C#3, C#3, C#3, C#3, C#3, C#3, C#3, C#3, C#3, C#3, C#3
- 2nd Partial (Normal): C3, C3, C3, C3, C3, C3, C3, C3, C3, C3, C3, C3
- Fundamental (Normal): B2, B2, B2, B2, B2, B2, B2, B2, B2, B2, B2, B2

0 2 b1 d1-2 b2-3 4 #4 2-4 2-3-5 2-4 2-3-4 4-5 1-4-5 1-2-4-5 1-2-3-4 3-4-5 1-2-4-5 1-3-4 3-4-5 1-2-3-4 1-3-4-5 (Not present on four-valve instruments. False tones only.)