

Overtone Chart for Bb-F-Gb-D Bass Trombone

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Explanation:

Instructions at left refer to intonation tendencies.

1 = 1st position, no valves.

V1 = 1st position, F-valve engaged.

VV1 = 1st position, both valves engaged.

Gb1 = 1st position, independent Gb-valve engaged.

The chart displays 12 partials, each with a specific intonation tendency and fingering. The notes are written on a five-line staff with a bass clef. The key signature is Bb major (two flats). The notes are: 1 (Bb), 2 (D), 3 (Eb), 4 (F), 5/Gb1 (Ab), 6/V1/Gb2 (Bb), 7/V2/Gb3 (Cb), V3/Gb4 (Db), VV1/V4/Gb5 (Eb), VV2/V5/Gb6 (F), VV3/V6 (Gb), VV4 (Ab), and VV5 (Bb).

Partial	Intonation Tendency	Fingering
12th	Lower Slightly	1 2 3 4 5/Gb1 6/V1/Gb2 7/V2/Gb3 V3/Gb4 VV1/V4/Gb5 VV2/V5/Gb6 VV3/V6 VV4 VV5
11th	Raise Much	1 2 3 4 5/Gb1 6/V1/Gb2 7/V2/Gb3 V3/Gb4 VV1/V4/Gb5 VV2/V5/Gb6 VV3/V6 VV4 VV5
10th	Raise Slightly	1 2 3 4 5/Gb1 6/V1/Gb2 7/V2/Gb3 V3/Gb4 VV1/V4/Gb5 VV2/V5/Gb6 VV3/V6 VV4 VV5
9th	Lower Slightly	1 2 3 4 5/Gb1 6/V1/Gb2 7/V2/Gb3 V3/Gb4 VV1/V4/Gb5 VV2/V5/Gb6 VV3/V6 VV4 VV5
8th	Normal	1 2 3 4 5/Gb1 6/V1/Gb2 7/V2/Gb3 V3/Gb4 VV1/V4/Gb5 VV2/V5/Gb6 VV3/V6 VV4 VV5
7th	Raise Much	1 2 3 4 5/Gb1 6/V1/Gb2 7/V2/Gb3 V3/Gb4 VV1/V4/Gb5 VV2/V5/Gb6 VV3/V6 VV4 VV5
6th	Lower Slightly	1 2 3 4 5/Gb1 6/V1/Gb2 7/V2/Gb3 V3/Gb4 VV1/V4/Gb5 VV2/V5/Gb6 VV3/V6 VV4 VV5
5th	Raise Slightly	1 2 3 4 5/Gb1 6/V1/Gb2 7/V2/Gb3 V3/Gb4 VV1/V4/Gb5 VV2/V5/Gb6 VV3/V6 VV4 VV5
4th	Normal	1 2 3 4 5/Gb1 6/V1/Gb2 7/V2/Gb3 V3/Gb4 VV1/V4/Gb5 VV2/V5/Gb6 VV3/V6 VV4 VV5
3rd	Lower Slightly	1 2 3 4 5/Gb1 6/V1/Gb2 7/V2/Gb3 V3/Gb4 VV1/V4/Gb5 VV2/V5/Gb6 VV3/V6 VV4 VV5
2nd	Normal	1 2 3 4 5/Gb1 6/V1/Gb2 7/V2/Gb3 V3/Gb4 VV1/V4/Gb5 VV2/V5/Gb6 VV3/V6 VV4 VV5
Fundamental	Normal	1 2 3 4 5/Gb1 6/V1/Gb2 7/V2/Gb3 V3/Gb4 VV1/V4/Gb5 VV2/V5/Gb6 VV3/V6 VV4 VV5