



Max McKee Executive Director (541) 840-4888



**Scott McKee** CEO (541) 778-4880



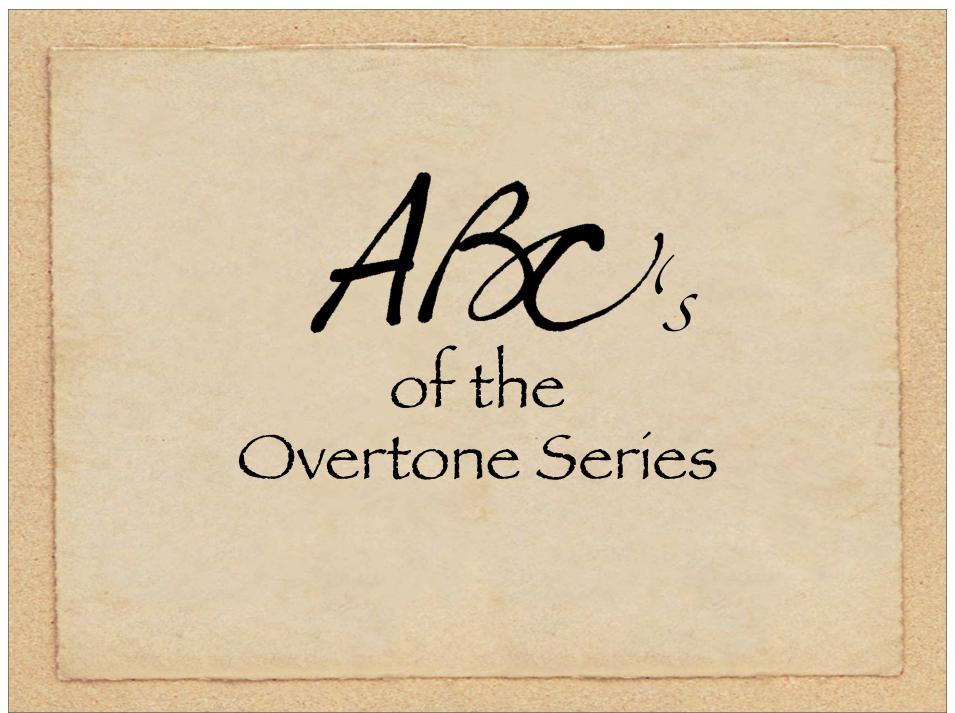
**Paul Kassulke**Director of Operations (541) 778-3161

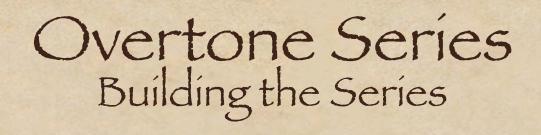
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**Another ABC Presentation** 

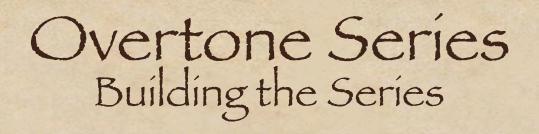
American Band College of Central Washington University



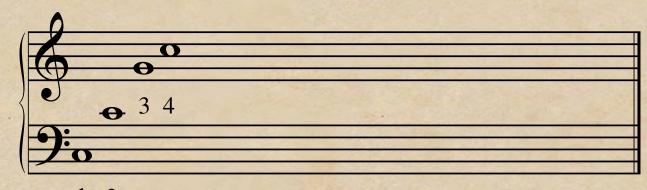


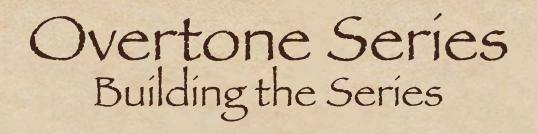


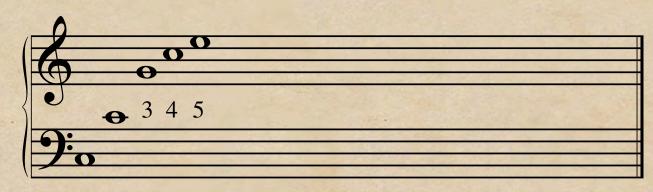


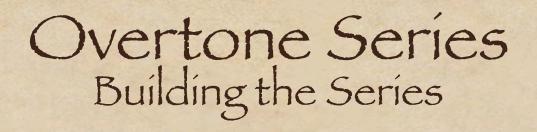




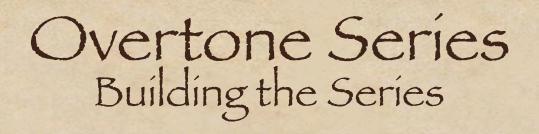




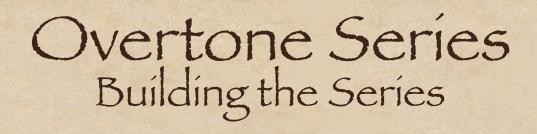


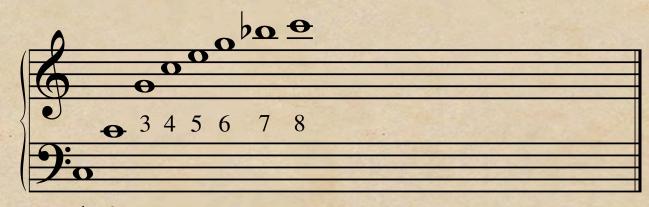


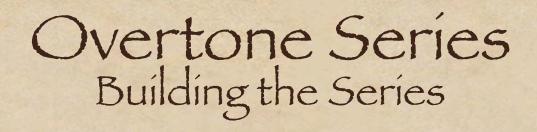




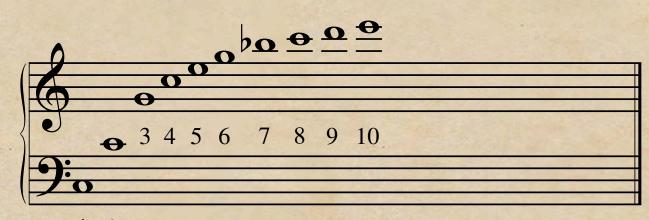














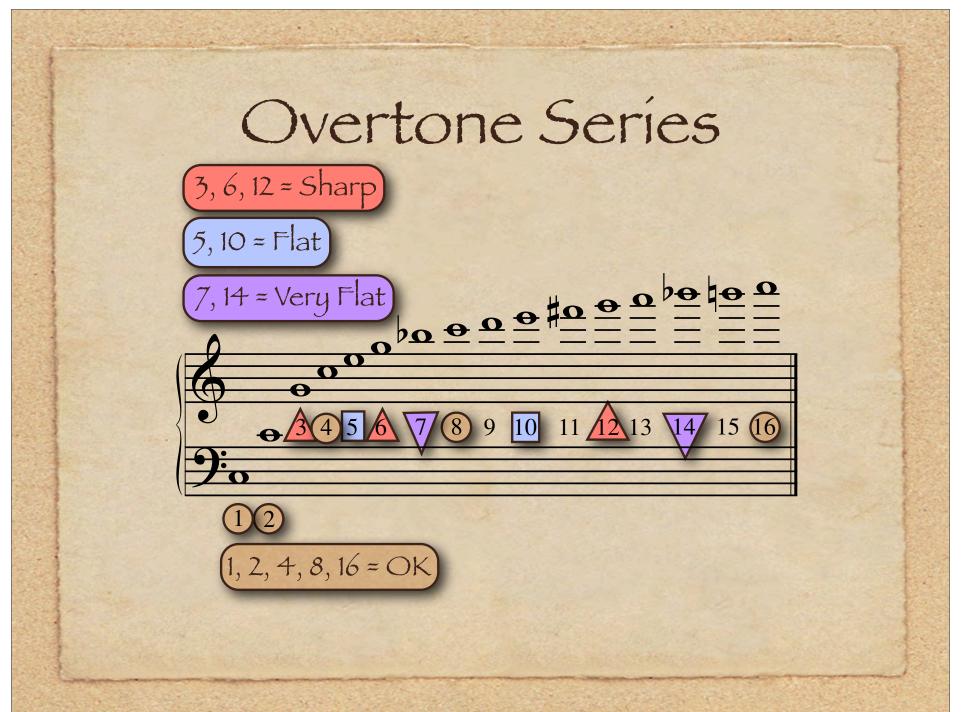
Partíal













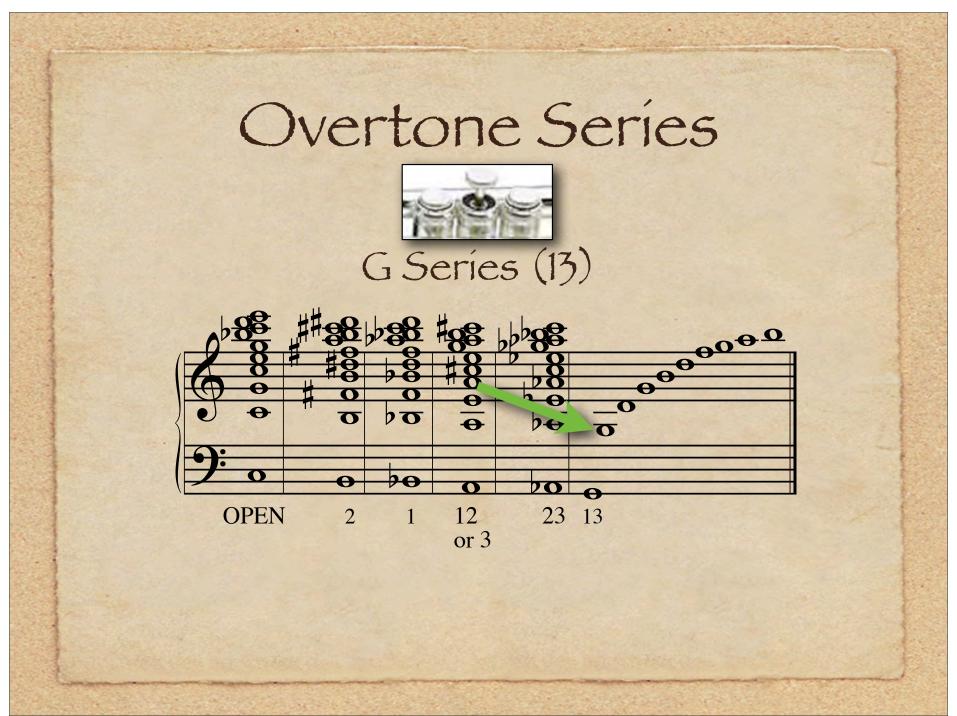


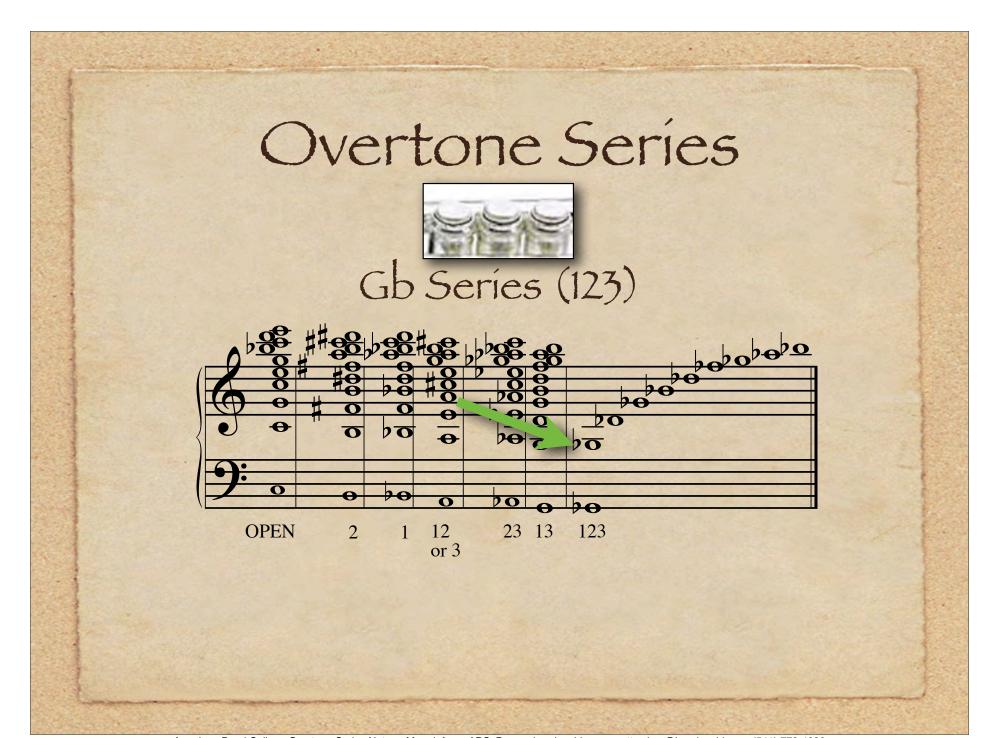




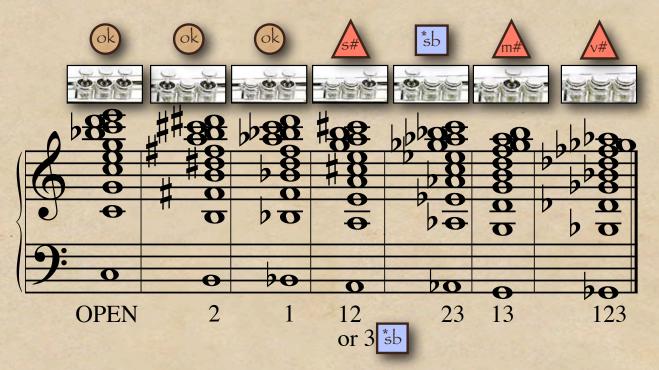












\* Can vary depending on the manufacturer.

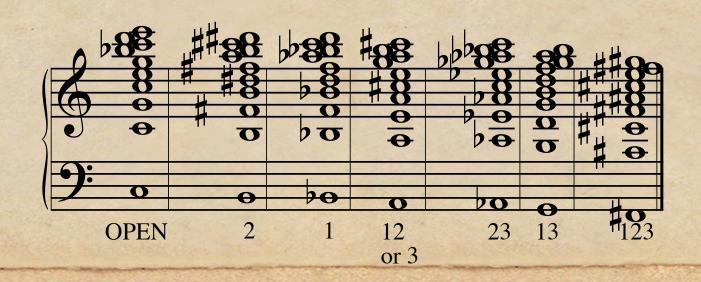




Trumpet

• Check for given note NONE





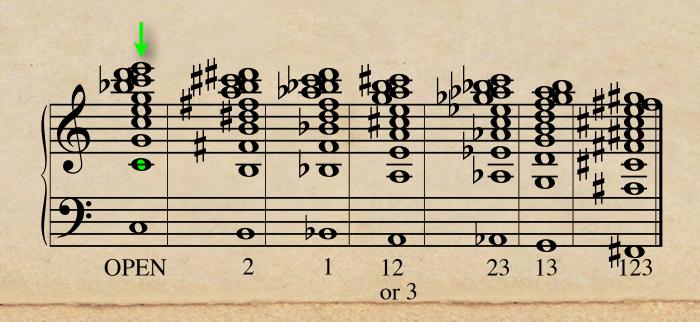
Trumpet

• Check for given note NONE

8 MAJOR 3RD

Think down Major 3rd, check for series

**OPEN** 



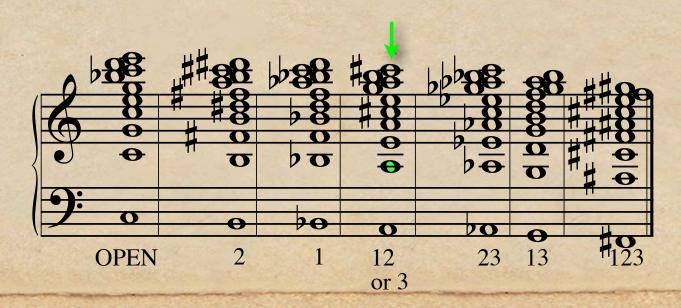
Trumpet

• Check for given note NONE PERFO

Think down Major 3rd, check for series OPEN

Think down Perfect 5th, check for series

12 or 3



Trumpet

• Check for given note NONE NONE TO MINER 7TI

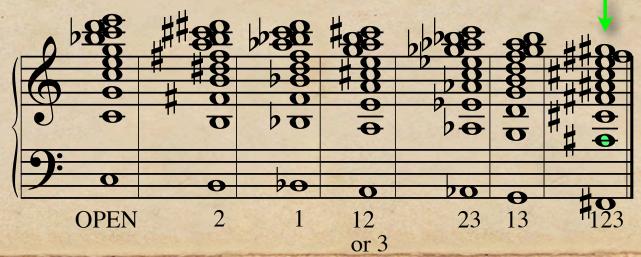
Think down Major 3rd, check for series OPEN

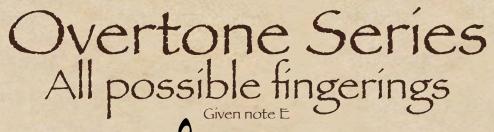
Think down Perfect 5th, check for series

12 or 3

Think down minor 7th, check for series

123

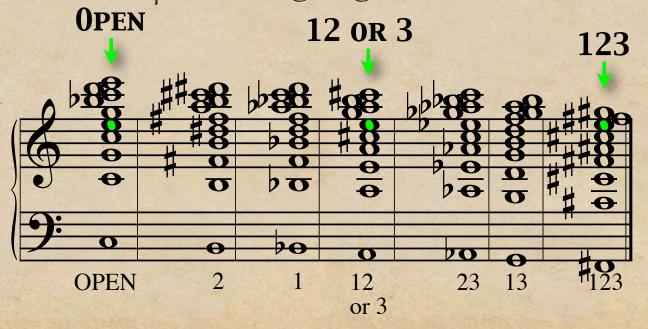


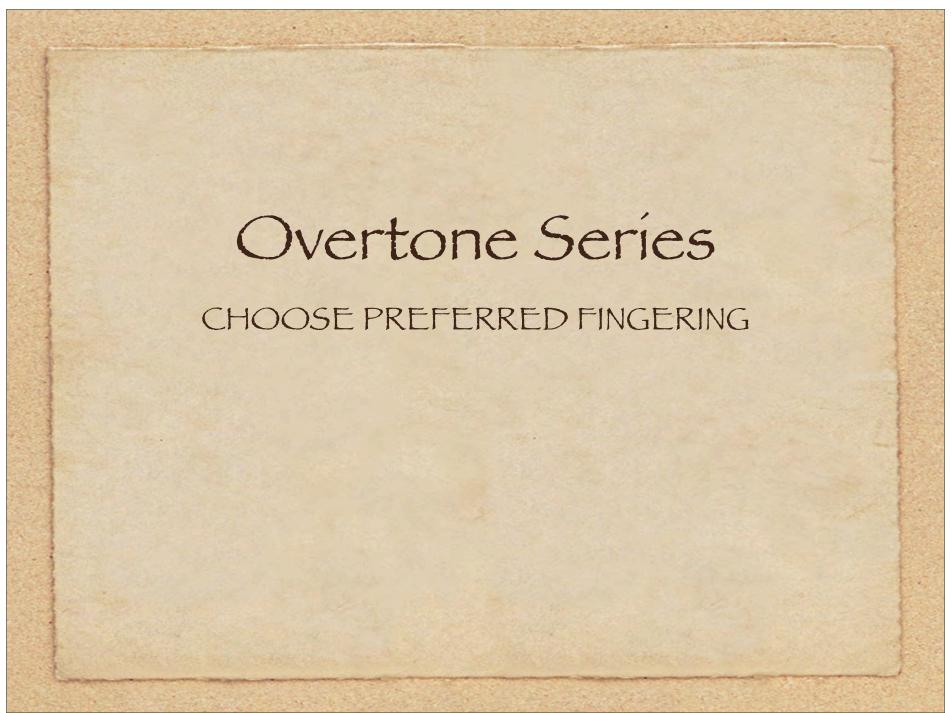


Trumpet



• There are 4 possible fingerings:





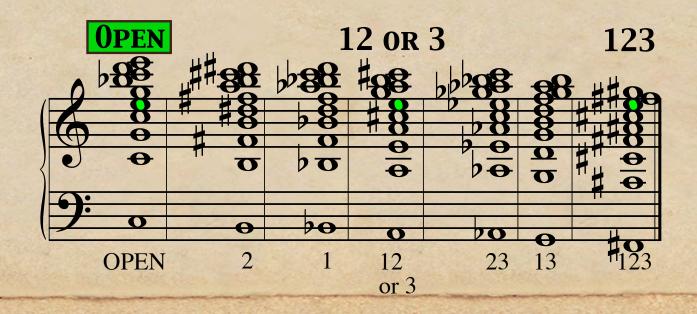
### Overtone Series Choosing preferred fingering

- Least number of valves,
- Unless it involves 3rd valve,
- Or is the 7th partial

Overtone Series Choosing preferred fingering

Trumpet

Least number of valves

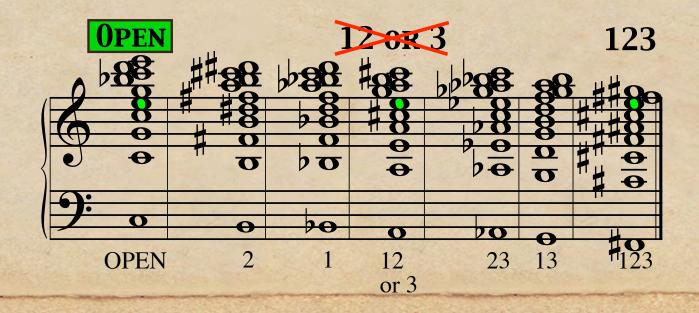


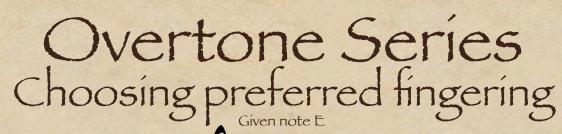
Overtone Series Choosing preferred fingering

Trumpet

Least number of valves,

Unless it involves 3rd valve



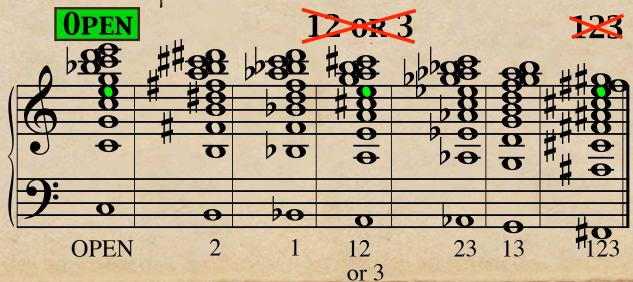


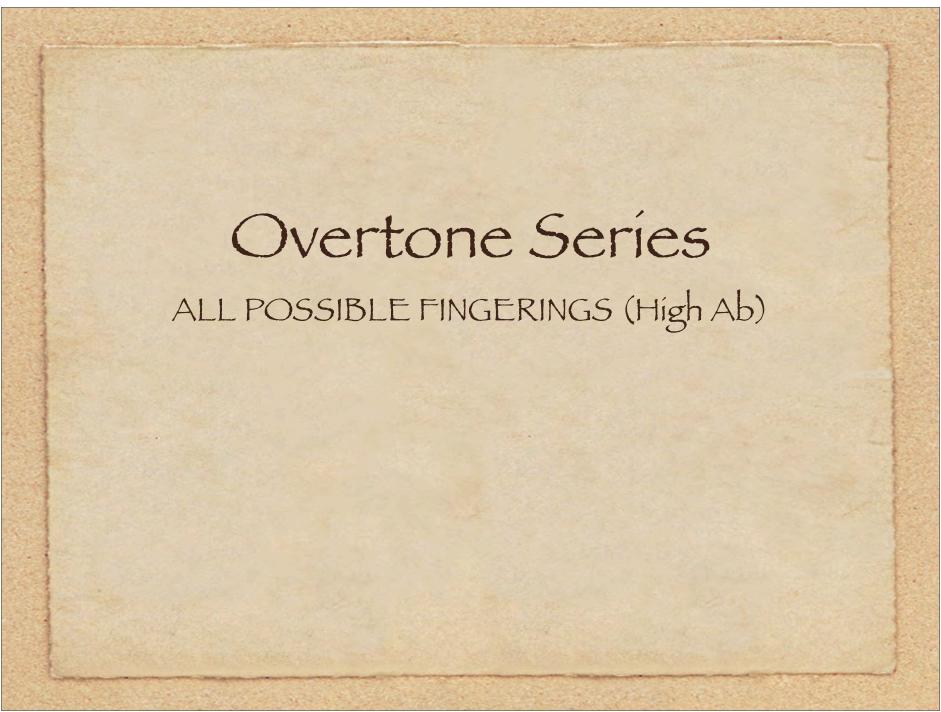
Trumpet

Least number of valves,

Unless it involves 3rd valve,

Or is the 7th partial

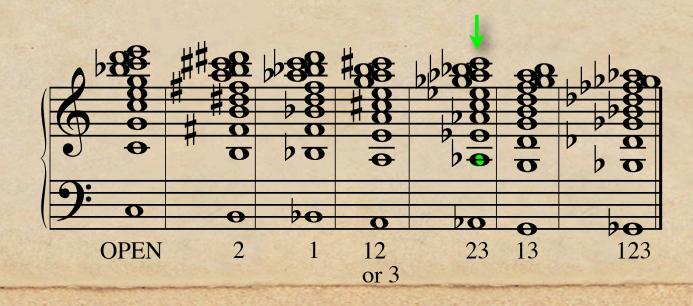




Trumpet

• Check for given note





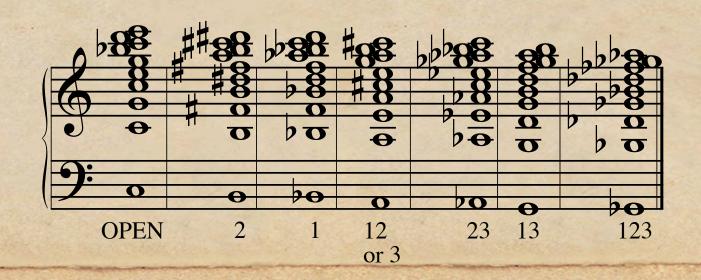
Trumpet

• Check for given note 23

Think down Major 3rd, check for series

**NONE** 

\* MAJOR 3RD

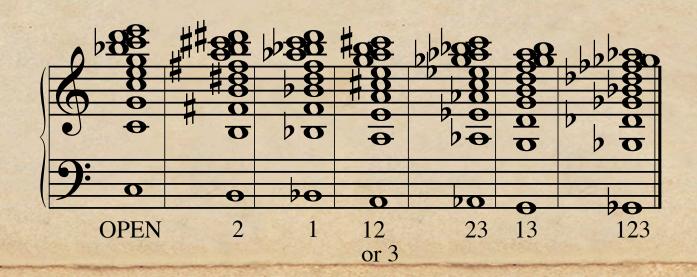


Trumpet

• Check for given note 23

Think down Major 3rd, check for series NONE

• Think down Perfect 5th, check for series NONE



Trumpet

MNOR 7TH

Check for given note

Think down Major 3rd, check for series

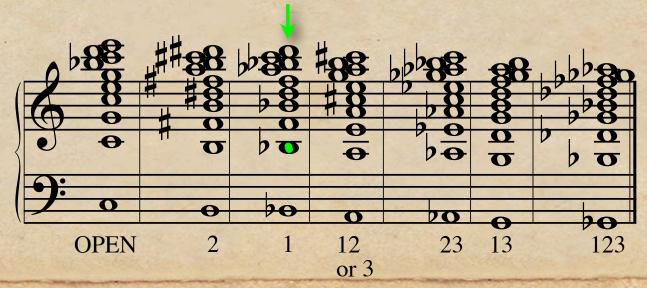
NONE

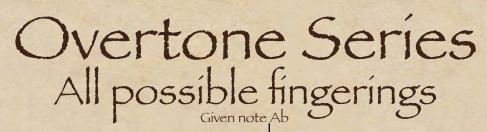
• Think down Perfect 5th, check for series

NONE

Think down minor 7th, check for series

1





Trumpet

Major 9th

• Check for given note 23

Think down Major 3rd, check for series

NONE

Think down Perfect 5th, check for series

NONE

Think down minor 7th, check for series

 Think down Major 9th, check for series 123 00 **OPEN** 12 123

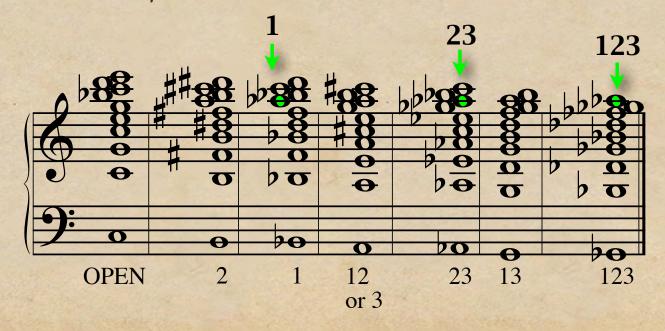
or 3

# Overtone Series All possible fingerings Overtone Series All possible fingerings Overnote Ab

Trumpet



• There are 3 possible fingerings:

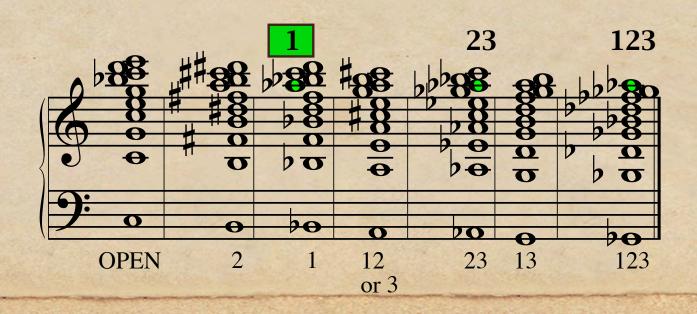


Overtone Series
Choosing preferred fingering

Output

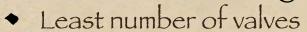
Trumpet

Least number of valves

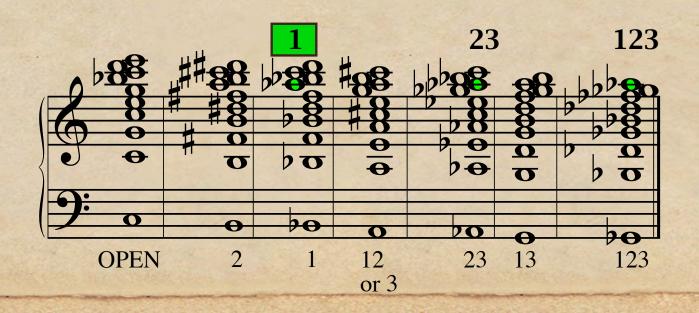


Overtone Series
Choosing preferred fingering
Office Given note Ab

Trumpet



Unless it involves 3rd valve



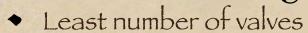
Overtone Series
Choosing preferred fingering

Overtone Series

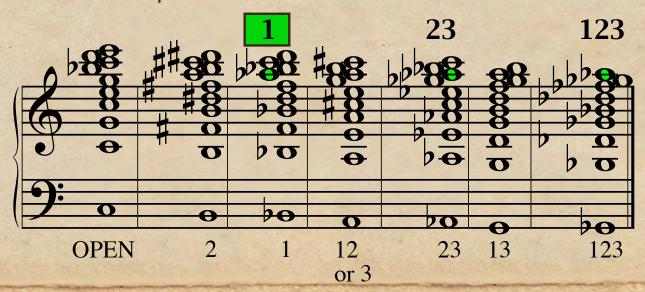
Choosing preferred fingering

Overnote Ab

Trumpet

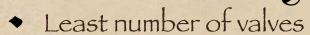


- Unless it involves 3rd valve
- Or is the 7th partial



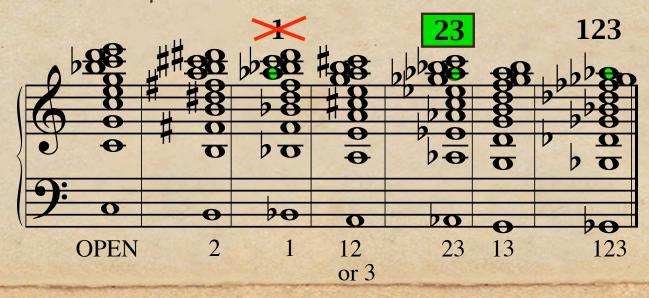
Overtone Series
Choosing preferred fingering
Office Ab

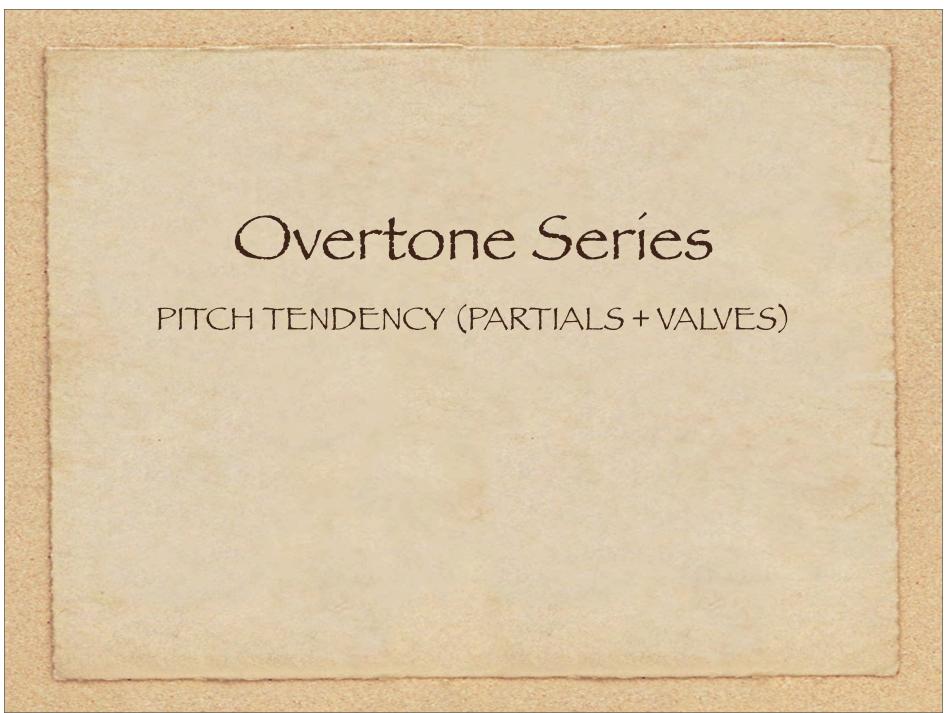
Trumpet

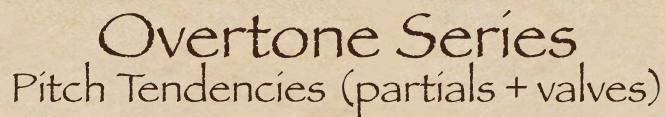


Unless it involves 3rd valve

Or is the 7th partial





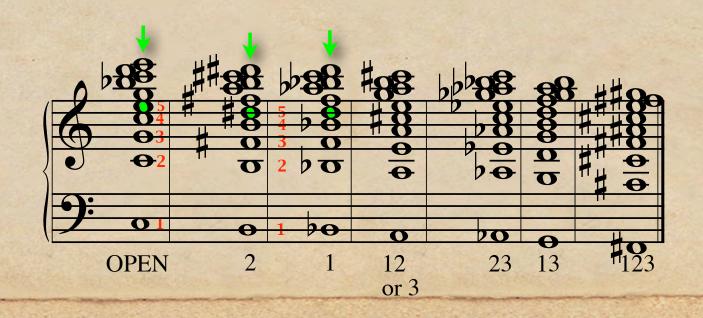


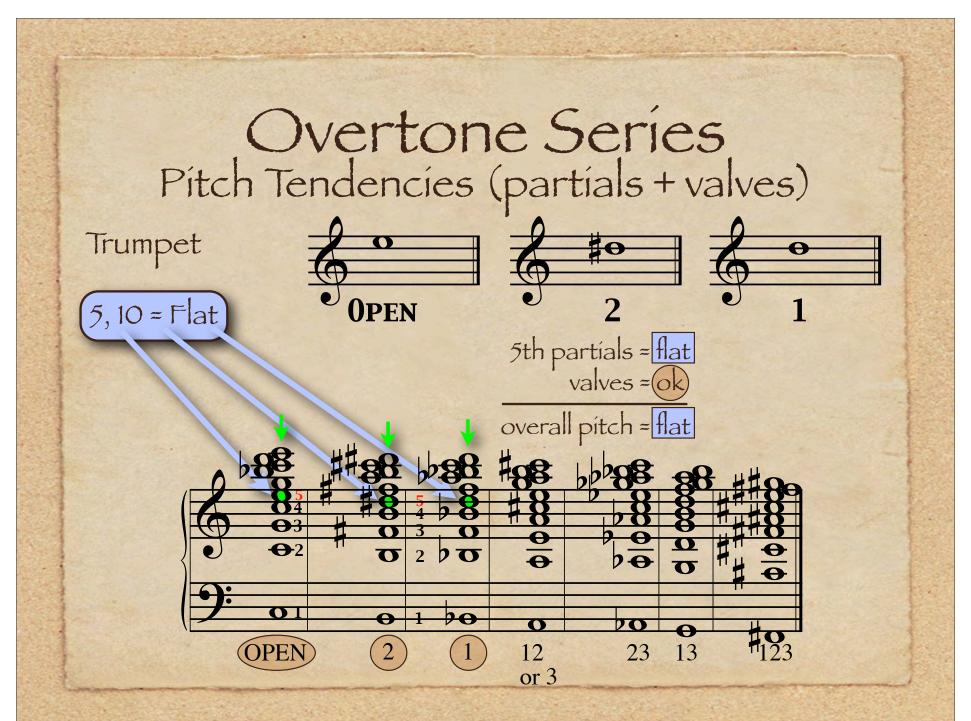
Trumpet

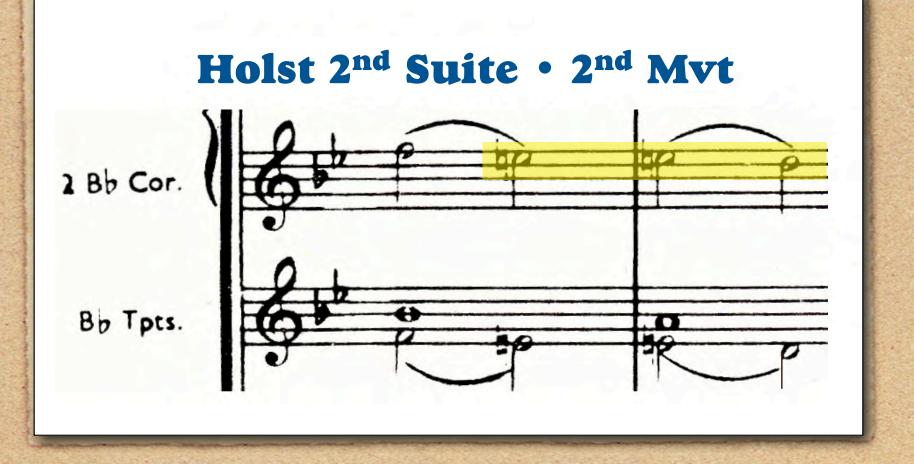




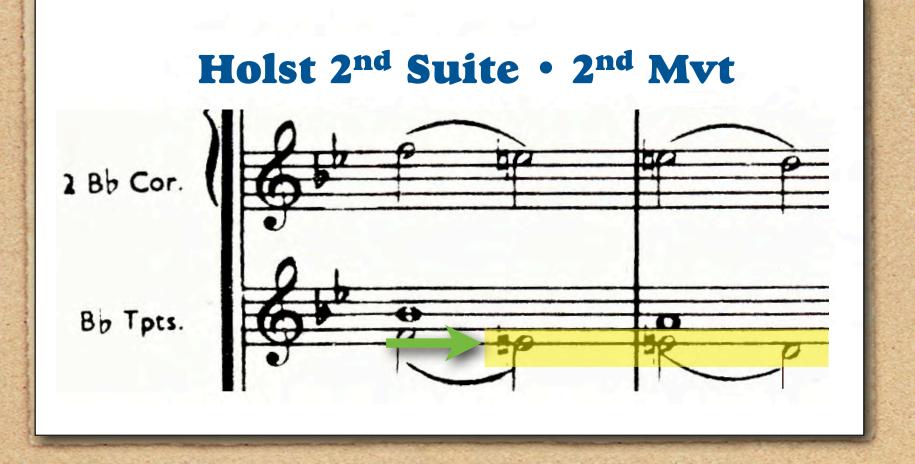


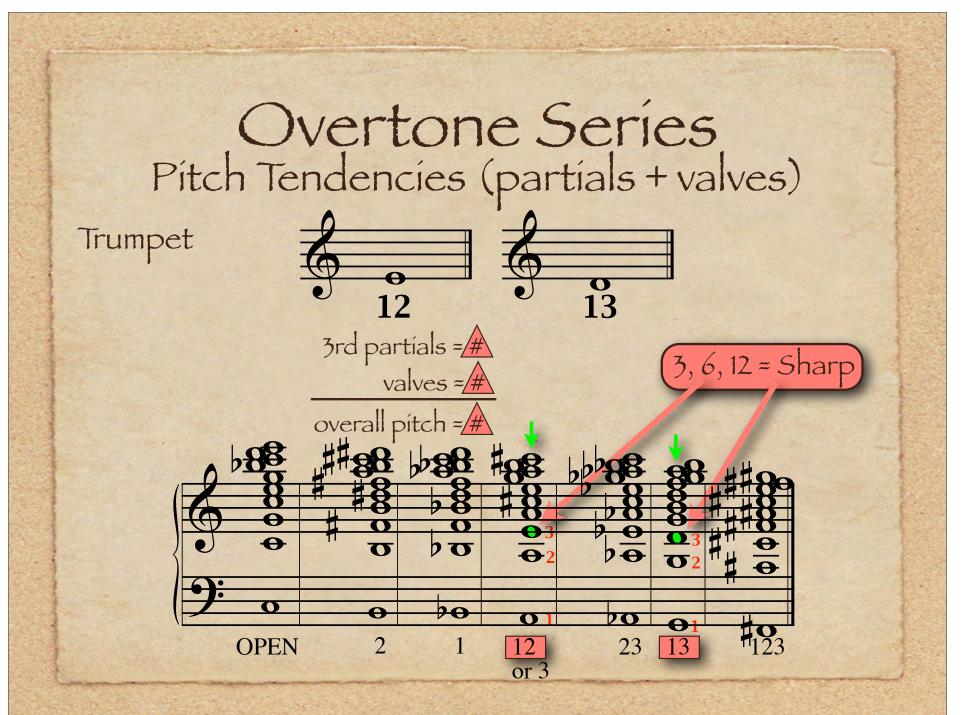


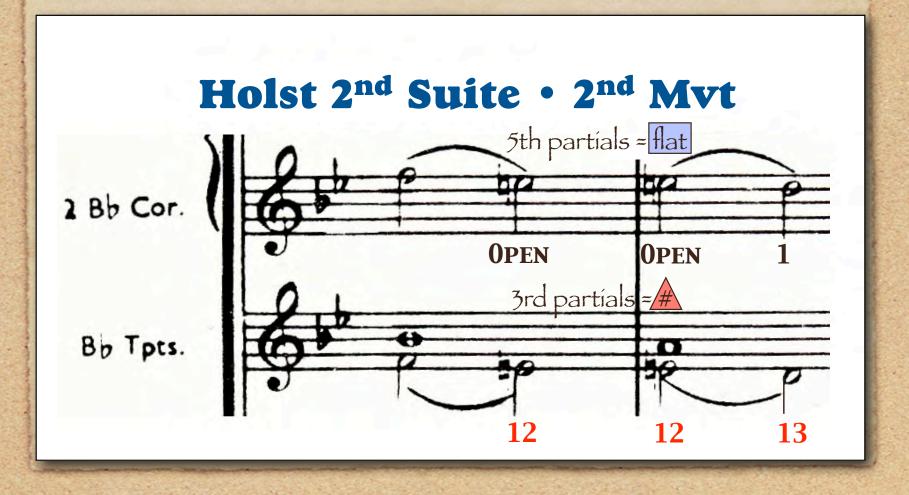








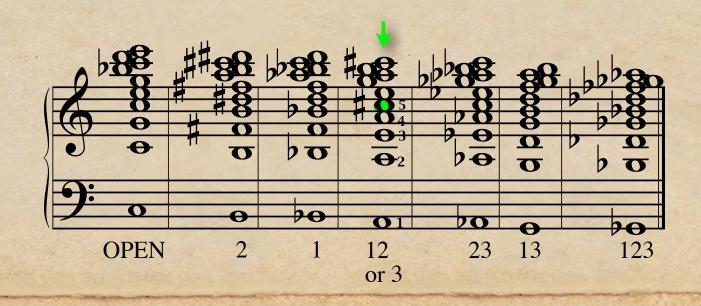


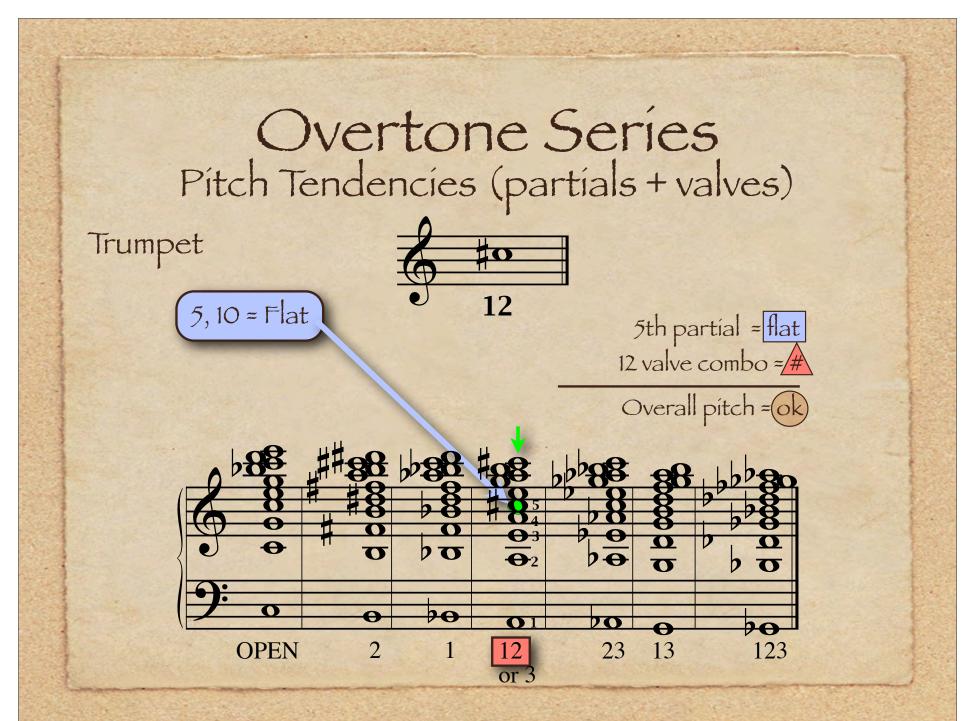


### Overtone Series Pitch Tendencies (partials + valves)

Trumpet





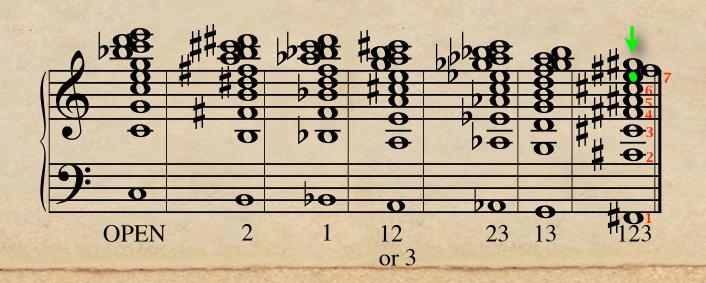


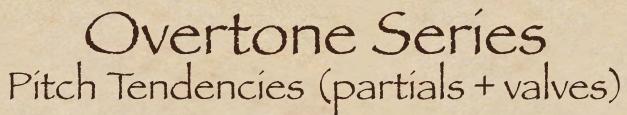
### Overtone Series Pitch Tendencies (partials + valves)

Trumpet



7th Partial Usage





Trumpet



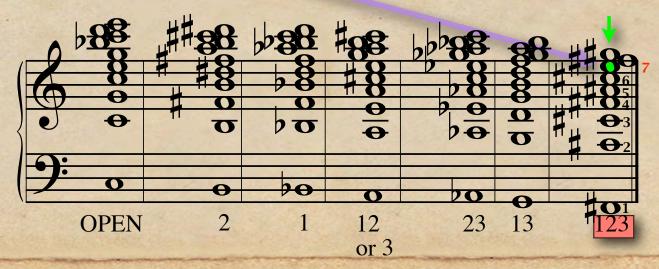
7th Partial Usage

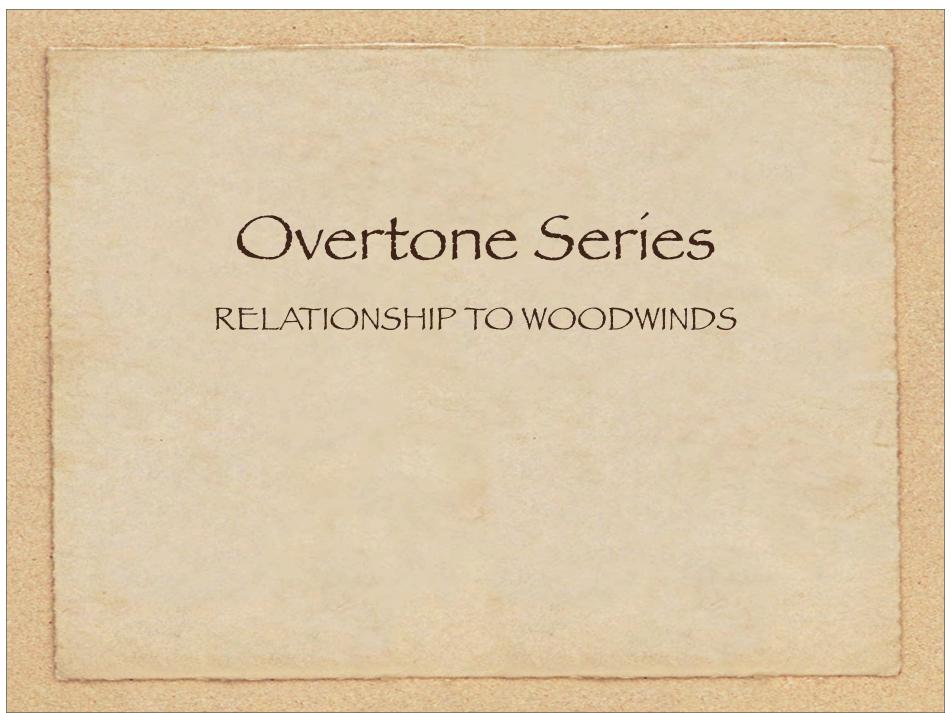
7, 14 = Very Flat

7th partial = very flat

123 valve combo = v. sharp

Overall pitch = ok

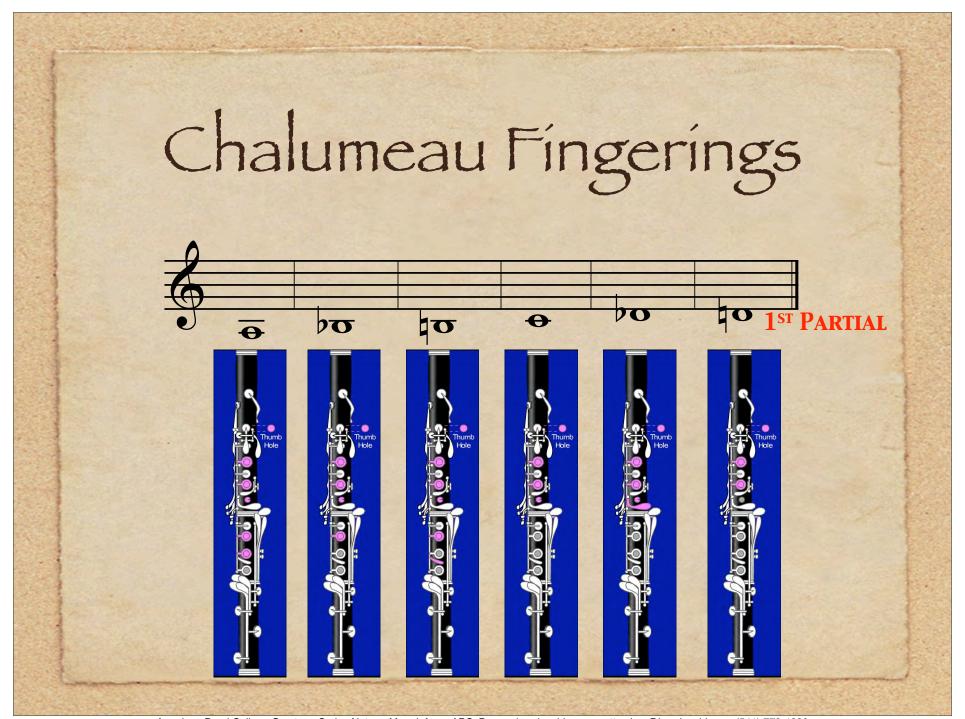


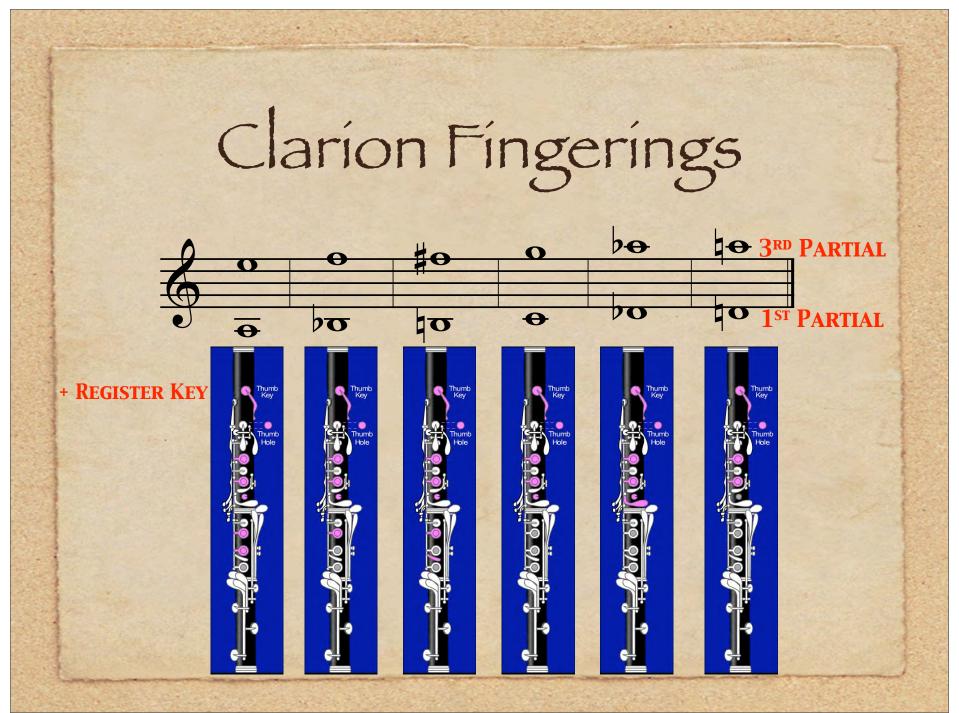


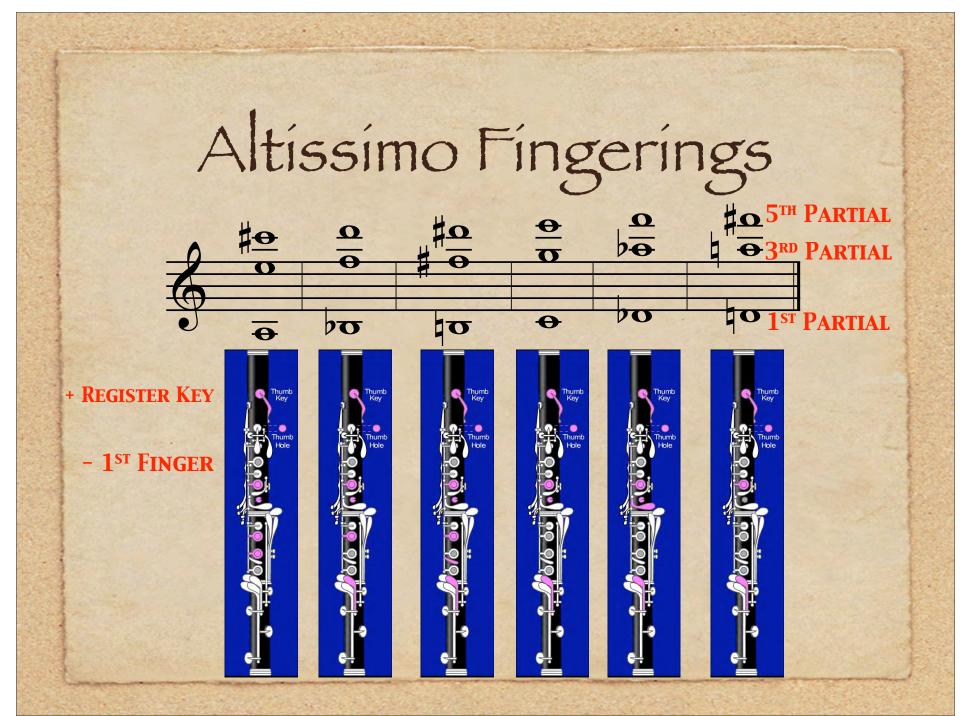
### Woodwind Fingerings



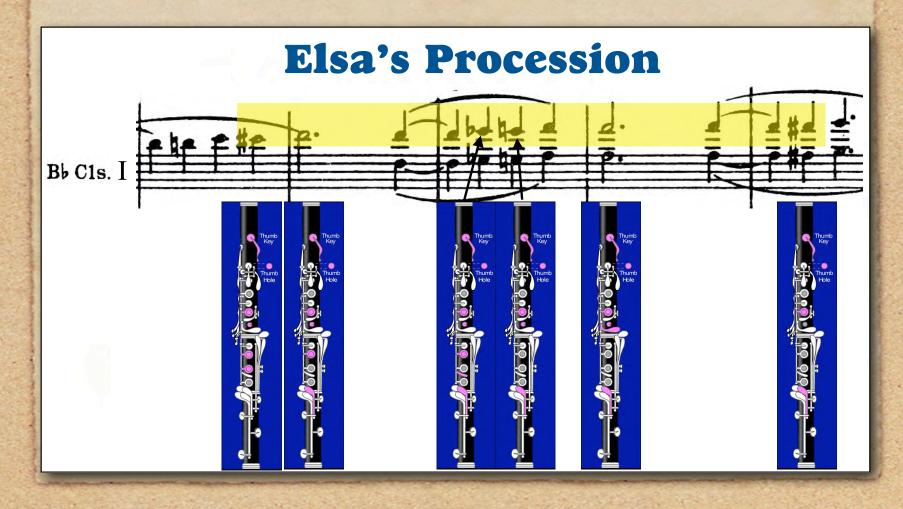


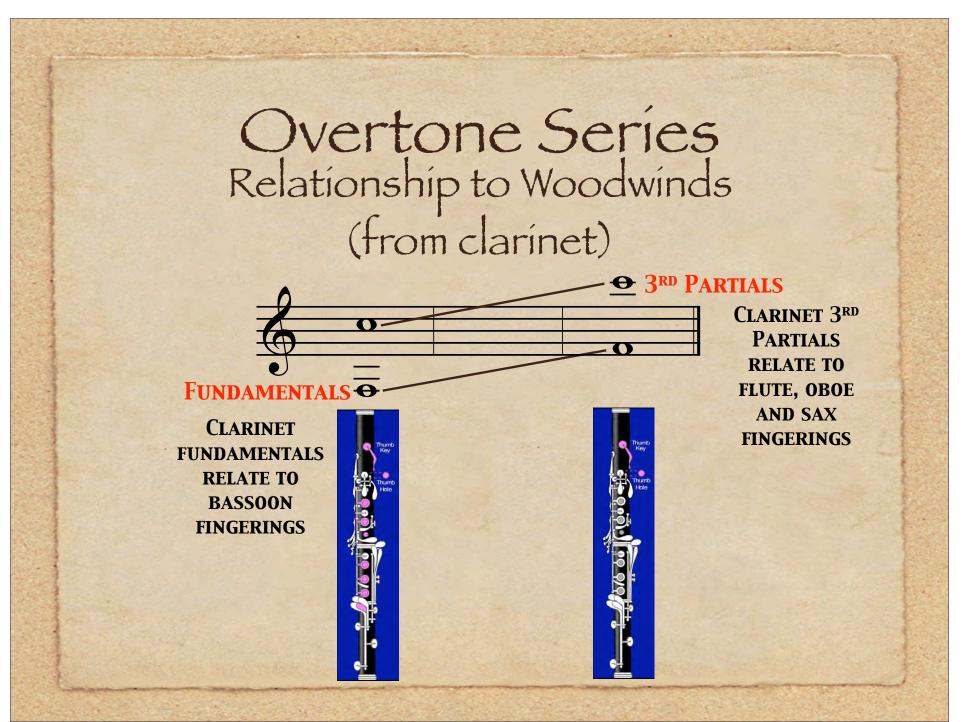




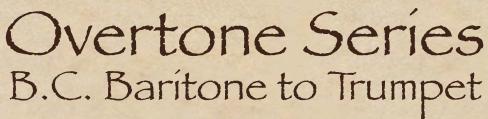


### Woodwind Fingerings



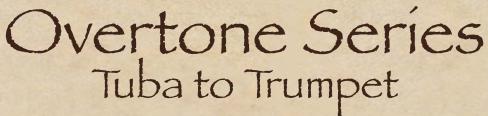


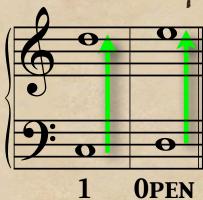




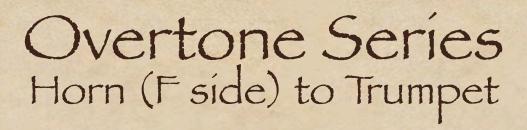


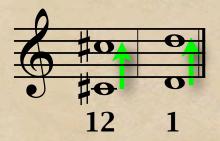
Go up Major 9th, then think trumpet fingerings



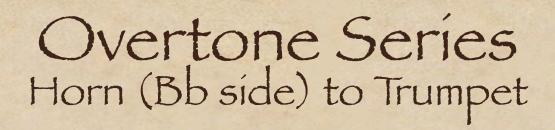


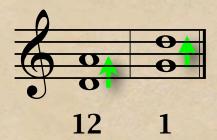
Go up two Octaves + Major 2nd, then think trumpet fingerings





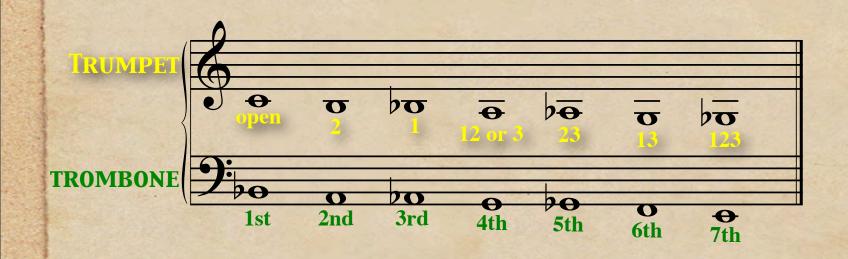
Go up Octave, then think trumpet fingerings





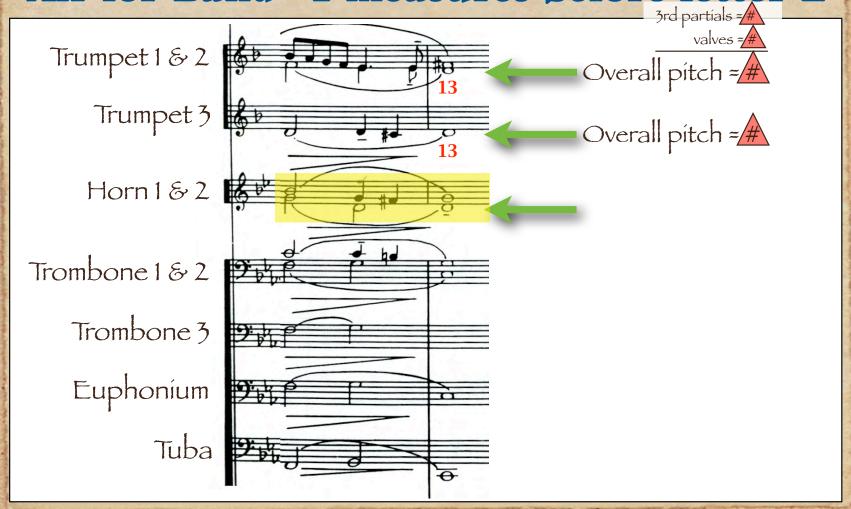
Go up perfect 5th, then think trumpet fingerings

## Overtone Series Trombone & Trumpet Relationship



#### Brass Pitch Problems

Air for Band - 2 measures before letter E



Horn (F side) to Trumpet

Go up octave, then think trumpet fingering

Horn 1 & 2



Horn (F side) to Trumpet

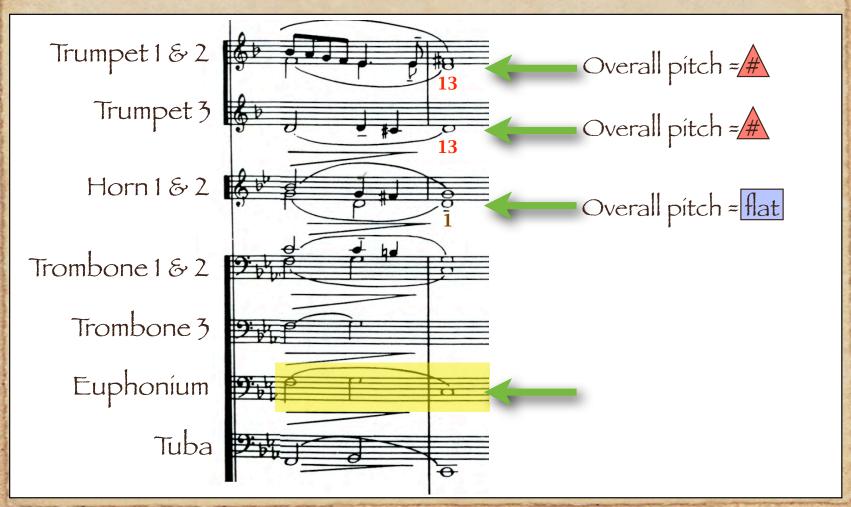
Go up octave, then think trumpet fingering

5th partials = flat valves = ok

overall pitch = flat

Horn 1 & 2





B.C. Baritone to Trumpet Go up M9th, then think trumpet fingering

Euphonium



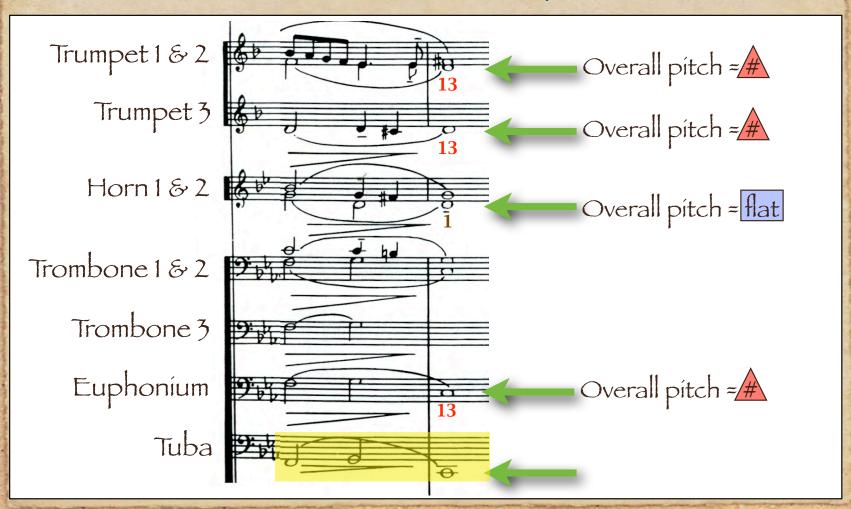
B.C. Baritone to Trumpet Go up M9th, then think trumpet fingering

Trumpet

Euphonium



3rd partials = #
valves = #
overall pitch = #



Tuba to Trumpet
Go up two octaves + M2nd,
then think trumpet fingering

Tuba



Tuba to Trumpet
Go up two octaves + M2nd,
then think trumpet fingering

Tuba



Tuba to Trumpet

Go up two octaves + M2nd, then think trumpet fingering

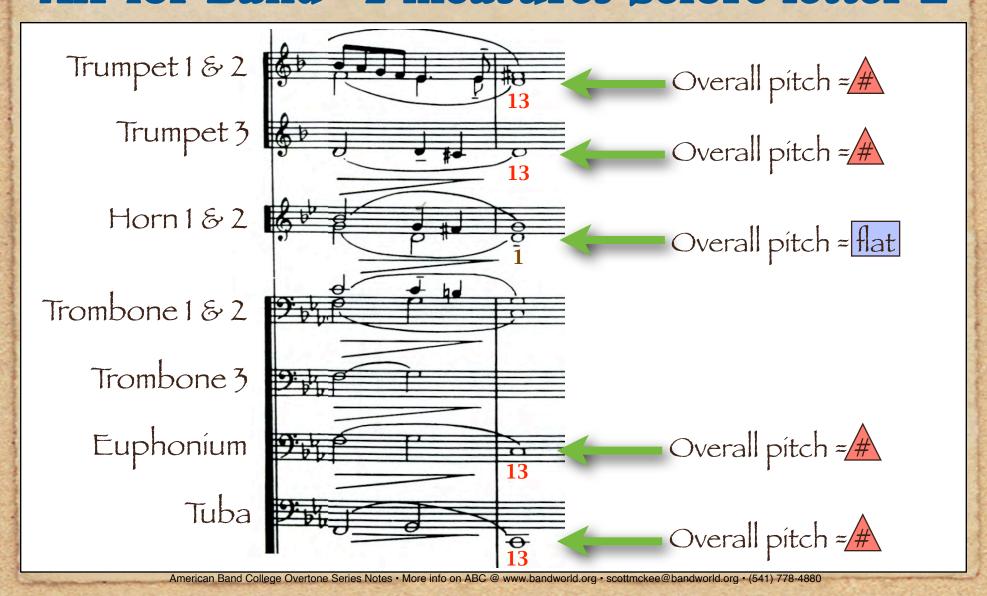
Trumpet

Tuba



3rd partials =# valves =#

overall pitch =

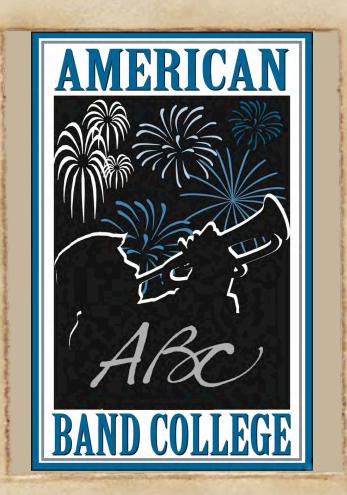


#### Partial to the Winds

The Power of the Overtone Series

Max McKee (maxmckee@bandworld.org)

Scott McKee (scottmckee@bandworld.org)



Get more info at www.bandworld.org