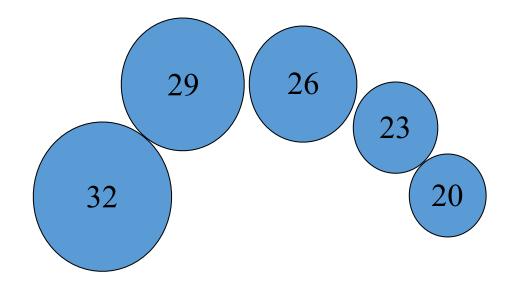
# Timpani



### Timpani Overview

- May be spelled Tympani in some literature
- Also known as "Kettle Drums"
- German Pauken
- French Timbales
- Italian Timpani
- An established orchestral instrument since 17<sup>th</sup> Century.
- First timpani players with string bass players
- Loudest orchestral instrument
- Membranophone with Definite Pitch
- Sensitivity to correct pitch

### Timpani Set Up



### Timpani Parts



## Timpani Bowls

- Polished Copper
  - Bright tone and great projection
- Hammered Copper
  - Darker more focused sound
  - Cosmetic attraction
  - Most costly
- Fiberglass
  - Painted a satin copper color
  - Good sound
  - Lightweight
  - Less costly

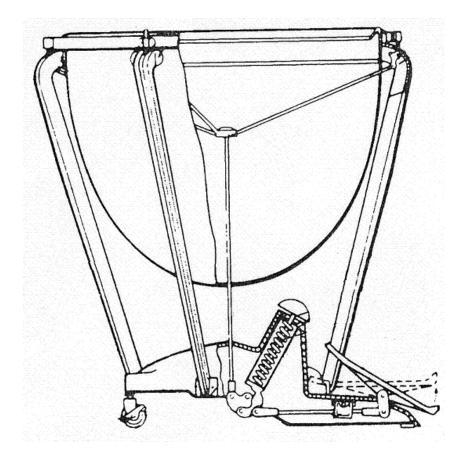
### Timpani Heads

- Extended Collar 1" gap from bearing edge of bowl to hoop
  - More open and focused sound
- Regular Collar (Pre 1979) small gap
- Smooth White Mylar (Plastic) Ludwig, Remo
- Clear / Hazy Mylar (Plastic) Ludwig, Remo
- Evans
- Remo
  - Renaissance
    - Like calf skin
    - Darker tone

## Internal Tuning Linkage

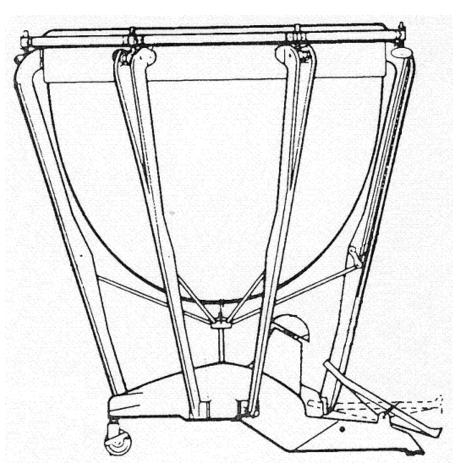
# Linkage and spider are inside bowl.

Safer for in school use.



### External Tuning Linkage

Linkage and spider outside bowl, partly hidden in the struts. Nothing inside the bowl.



### Timpani Sets

- Set of 2 (26" & 29") -
  - Simple beginner music
- Most common add on 23"
  - Extended range High
- Final add on 32"
  - Extended range Low
- Set of 4 (23", 26", 29", 32")
  - The most common timpani set up for full range
- Set of 5 (20" 23", 26", 29", 32")
  - Used for contemporary music Advanced.

## Timpani Mallets

- Articulations
  - Soft
  - Medium Soft
  - Medium Hard (General)
  - Hard (Staccato)
- Mallet Selection
  - Blend of notes in ensemble
  - Articulation
  - Tone
  - Roll Quality or Smoothness



## Timpani Grips

- French Thumbs on top
  - Mobility
  - Lighter Touch
  - Pull sound out of drum
- German Thumbs to the side
  - Powerful
  - Push sound in to drum
- American Hybrid Crossover
  - In between French & German





## Timpani Stroke

### • Full Stroke

- 6" 8" Motion Range
- Mezzo Forte Dynamic

### Wrist Stroke

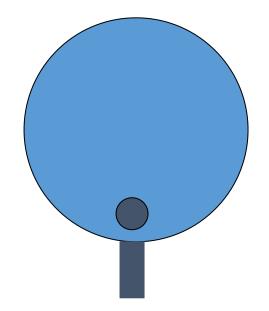
- 3" 4" Motion Range
- Piano dynamic

### Arm Stroke

- High 12"+ Motion Range
- Forte Double forte dynamic

## Playing Area on Timpani

- 6 O'Clock facing each drum
  Left Hand / Right Separation
- 2" 4" in from edge of timp head
- Center is a dead sound
  - Rarely used
  - Special sound effect only



# Dampening / Muffling

### Dampening

- With fingers
  - Direct finger dampening
  - Swipe for more indirect dampening
  - Hand to Hand dampening
  - Keep timpani notes from ringing in to each other

### Muffling

- With mutes
  - Less ring / less resonance / dry staccato sound
  - Special effects

### Sticking – Moving from Drum to Drum

- Right Hand Lead / Left Hand Lead
- Sticking Hand to Hand
- Doubling Double Note with same hand to move to next drum more efficiently

### Drum Choice for Best Sound

- Where do pitches sound best on each size drum
  - Determine range of desired note
  - Know range of each size drum
  - What is best register for each size drum
- 32" Low D A
- 29" Low F C
- 26" Low Bb F
- 23" Low D F
- 20" Low F C

### Timpani Rolls

- Sustain Sound Single Stroke Action
- Determining Factors
  - Register / Pitch
  - Dynamic Level
  - Hardness of Mallet
- Roll Beginnings
- Roll Endings
- Cresendos
  - Accelerate Roll Speed

## Timpani Tuning

- Timpani Gauges
- Tuning Forks
- Pitch Pipe
- Matching Pitches
- Interval Recognition
- Listening to Low Brass / String Bass
- Sympathetic Vibrations (Feel vs Hear)

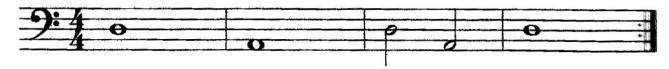
### Timpani Interval Training

- Hardest element of accurate timpani playing Tuning
- Solfege Singing Do, Re, Mi, Fa, Sol, La, Ti, Do
  - Minor 2<sup>nd</sup> Jaws
  - Major 2<sup>nd</sup> Do, Re, (Happy Birthday)
  - Minor 3<sup>rd</sup> Brahms Lullaby
  - Major 3<sup>rd</sup> Do, Re, Mi
  - Perfect 4<sup>th</sup> Here Comes the Bride / George of the Jungle
  - Raised 4<sup>th</sup> (Tri-tone) Maria from West Side Story
  - Perfect 5<sup>th</sup> (Do, Mi, Sol) Twinkle Twinkle, Star Wars Theme
  - Major 6<sup>th -</sup> NBC
  - Minor 7<sup>th -</sup> There's a Place For Us from West Side Story
  - Major 7<sup>th</sup> Bali Hai' from South Pacific
  - Octave Some Where Over the Rainbow

#### **SLOW LIFT**

Follow through the ring of the drum with your arm motion.





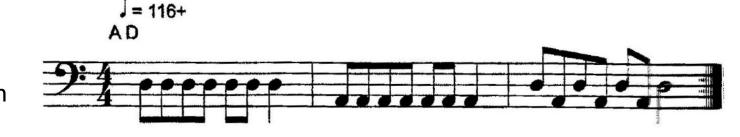
#### **MEDIUM LIFT**

Follow the bounce of the mallet off the head. Lift up



#### **FAST LIFT**

Lift up and play lightly to get clean Rhythms without pounding.



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#### **COMBINATION LIFTS**

Make the sound consistent in all Rhythms.



#### WARM UP EXCERCISE

Lift up and play lightly to get clean Rhythms without pounding.



#### **CROSS STICKING**

Make sure the beating spot is the same for both mallets.



#### COMPLEX CROSS STICK

Double stick only when absolutely necessary or between slower rhythms.



#### ARTICULATING ROLLS AND RHYTHMS

Accent the first note of the roll and rel the body of the roll. Lift the 16<sup>th</sup> note:



#### MATCHING NOTE LENGTH

Note length is determined by the wind and string instruments with similar parts.



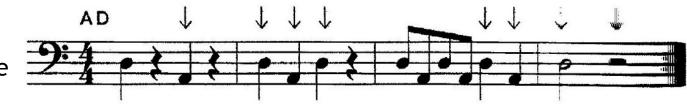
#### DAMPENING SHORT STACCATO NOTES

Listen to the ensemble to determine note length and dampening.



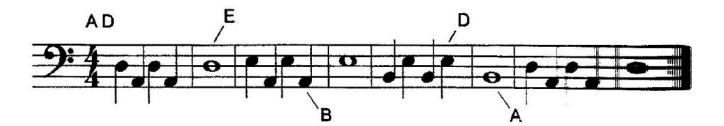
#### **LEGATO DAMPENING**

Simultaneously dampen and strike the new note.



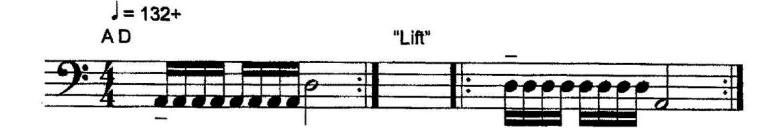
#### PEDALING

Pedal new note on down beat, not Before. Do not do a glissando.



#### ARTICULATING RHYTHMS

Emphasize the first note of a 16<sup>th</sup> note pattern.



#### FAST RHYTHM ARTICULATION

Emphasize the 16<sup>th</sup> notes for clear articulation without pounding.



#### **STICKING CHOICES**

Double sticking between drums allows for good lift and quality of sound.



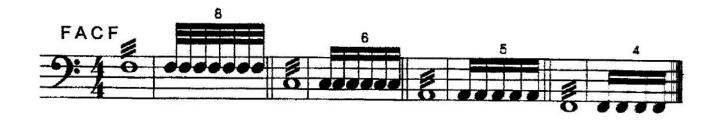
#### CROSS STICKING FAST RHYTHMS

Try to avoid double sticking on one Drum to avoid pounding or over playing.



#### ROLL SPEEDS FOR DIFFERENT PITCHES (HEAD TENSIONS)

The higher the note, the faster the roll. Use the feel of the mallet rebound and your ears to determine roll speed.



#### **STICKING FOR ROLLS**

Lead down with the left hand. Lead up with the right hand. Use an odd number of strokes to turn your hands around.



#### MEASURING LONG TIMPANI ROLLS

Accent the first note and find the relaxed "roll speed" (often 16<sup>th</sup> notes). Slow and smooth rolls sound better than fast and forced rolls.



#### LOUD ROLLS WITHOUT EDGE

Lean over the drum putting the tension in your chest, not your wrists. Slower even rolls sound better than fast rolls.







Plan sticking and roll speed according to tempo.



#### FAST TEMPO ROLLS

Articulate the first note of the roll and relax the rest.



#### MEASURED ROLLS AT FAST TEMPOS

Use odd numbered strokes. Use 5's wh  $4^{s}$  are too slow and 6's are too fast.



#### **ROLLS AT MODERATE TEMPO**

Articulate the first note of the roll and Relax the rest.

