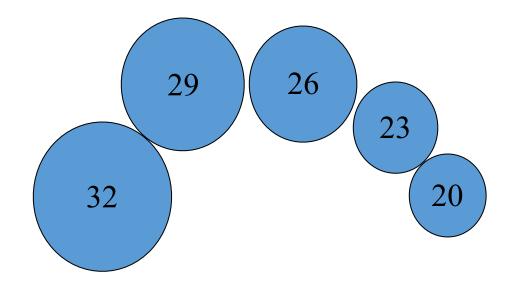
Timpani



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 17th 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

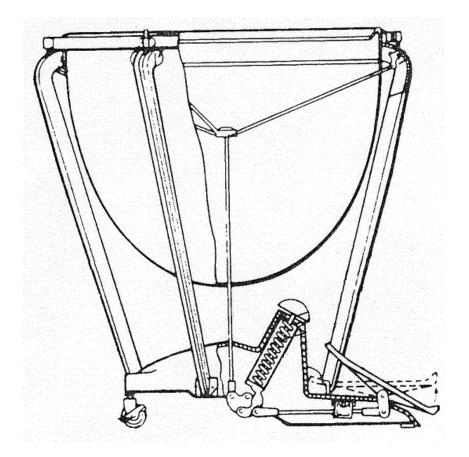
Timpani Heads

- 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

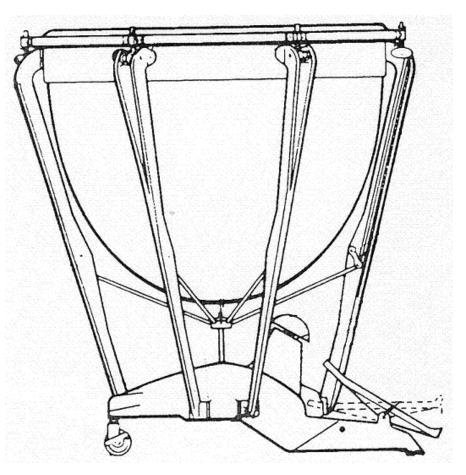
Linkage and spider are inside bowl.

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

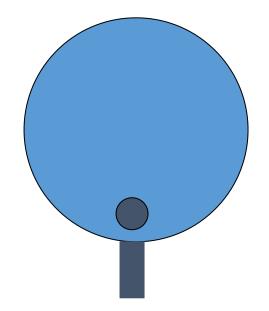
- 3" 4" Motion Range
- Piano dynamic

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)

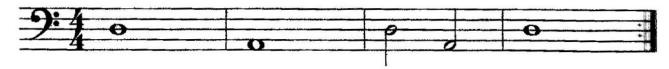
Timpani Interval Training

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

SLOW LIFT

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





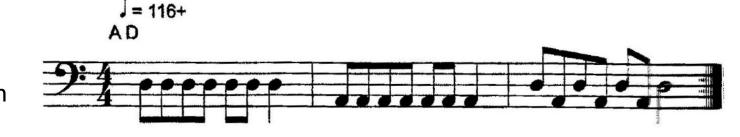
MEDIUM LIFT

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 16th note:



MATCHING NOTE LENGTH

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



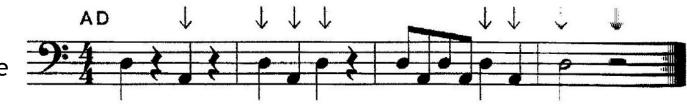
DAMPENING SHORT STACCATO NOTES

Listen to the ensemble to determine note length and dampening.



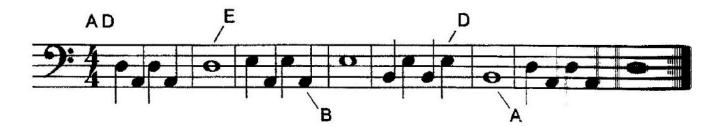
LEGATO DAMPENING

Simultaneously dampen and strike the new note.



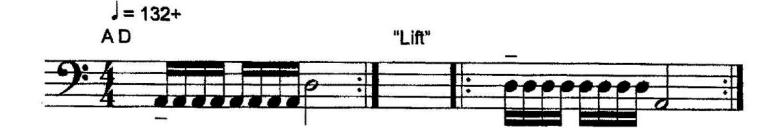
PEDALING

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



ARTICULATING RHYTHMS

Emphasize the first note of a 16th note pattern.



FAST RHYTHM ARTICULATION

Emphasize the 16th 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 16th notes). Slow and smooth rolls sound better than fast and forced rolls.



LOUD ROLLS WITHOUT EDGE

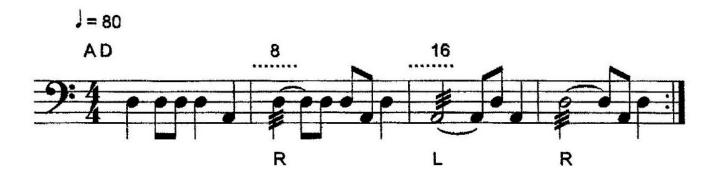
Lean over the drum putting the tension in your chest, not your wrists. Slower even rolls sound better than fast rolls.







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.

