unity kit

D4420 & D4522 Drum Set Owner's Manual

SPL ™ — SOUND PERCUSSION LABS

4-Piece Shell Pack Plus Drum Kit (D4420)

5-Piece Complete Drum Kit (D4522)

SoundPercussionLabs.com

Thank you for purchasing this kit from Sound Percussion Labs' outstanding line of drums, percussion and hardware. They offer unlimited enjoyment and will create a solid foundation for your playing.

This owner's manual includes two drum kit models. Be sure to locate the model number of your kit to follow the correct assembly instructions.

These instructions should be used as only a general guide. Make adjustments for your comfort and playing style. Experimentation can lead to unique and great experiences in your playing and your music. So experiment with your setup and enjoy!
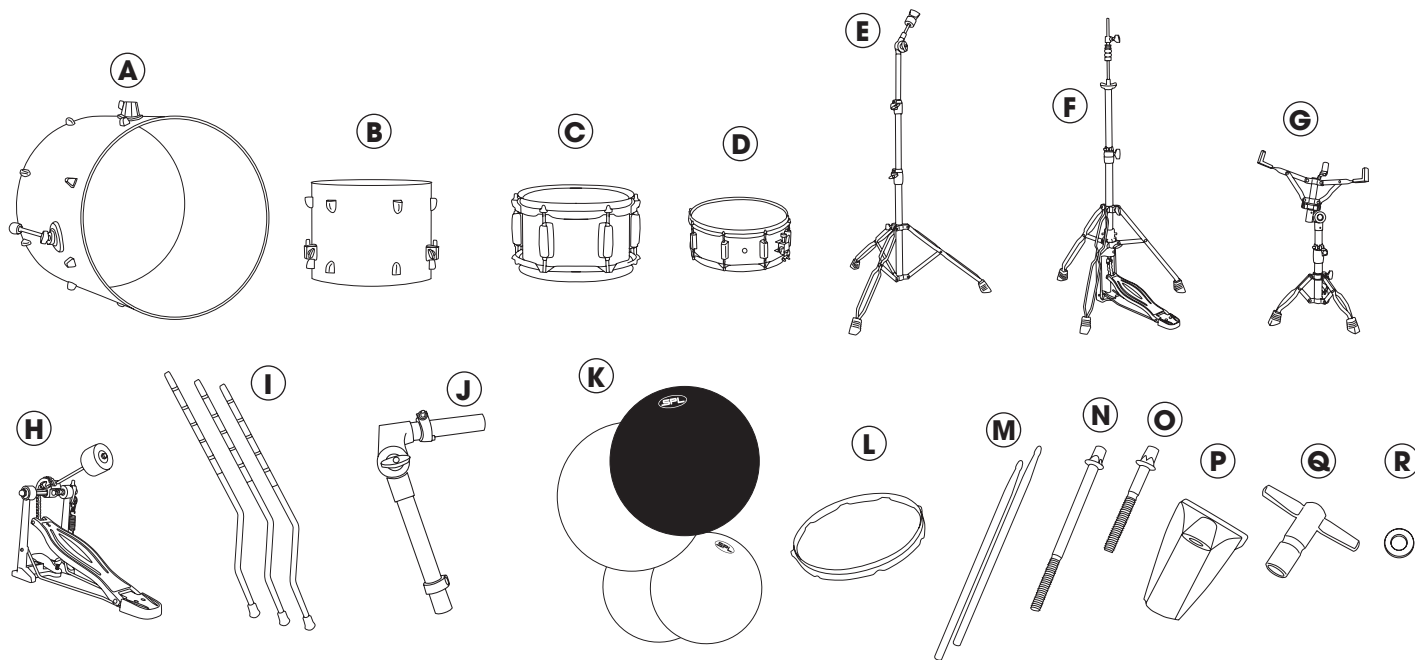
Also, be sure to visit *www.soundpercussionlabs.com* for more information on Sound Percussion Labs products and support.

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unity kit Drum Set Owner's Manual

4-Piece unity kit Parts Index
D4420

SET INCLUDES:

Drums:

(A) 20"x16" Bass Drum
(B) 14"x12" Floor Tom Drum
(C) 12"x 8" Mounted Tom Drum
(D) 13"x 5" Snare Drum
(E) Cymbal Stand
(F) Hi-Hat Stand
(G) Snare Drum Stand
(H) Bass Drum Pedal
(I) Three Floor Tom Legs
(J) Tom Arm
(K) **Drum Heads:**
   20" Clear Batter Side Bass Drum Head
   20" Black w/logo, Resonant Side, Bass Drum Head
   14" Batter Side Floor Tom Head
   14" Resonant Side Floor Tom Head
   12" Batter Side Mounted Tom Drum Head
   12" Resonant Side Mounted Tom Drum Head

   NOTE: Snare drum heads are already installed on snare

(L) **Hoops:**
   Two Floor Tom Hoops
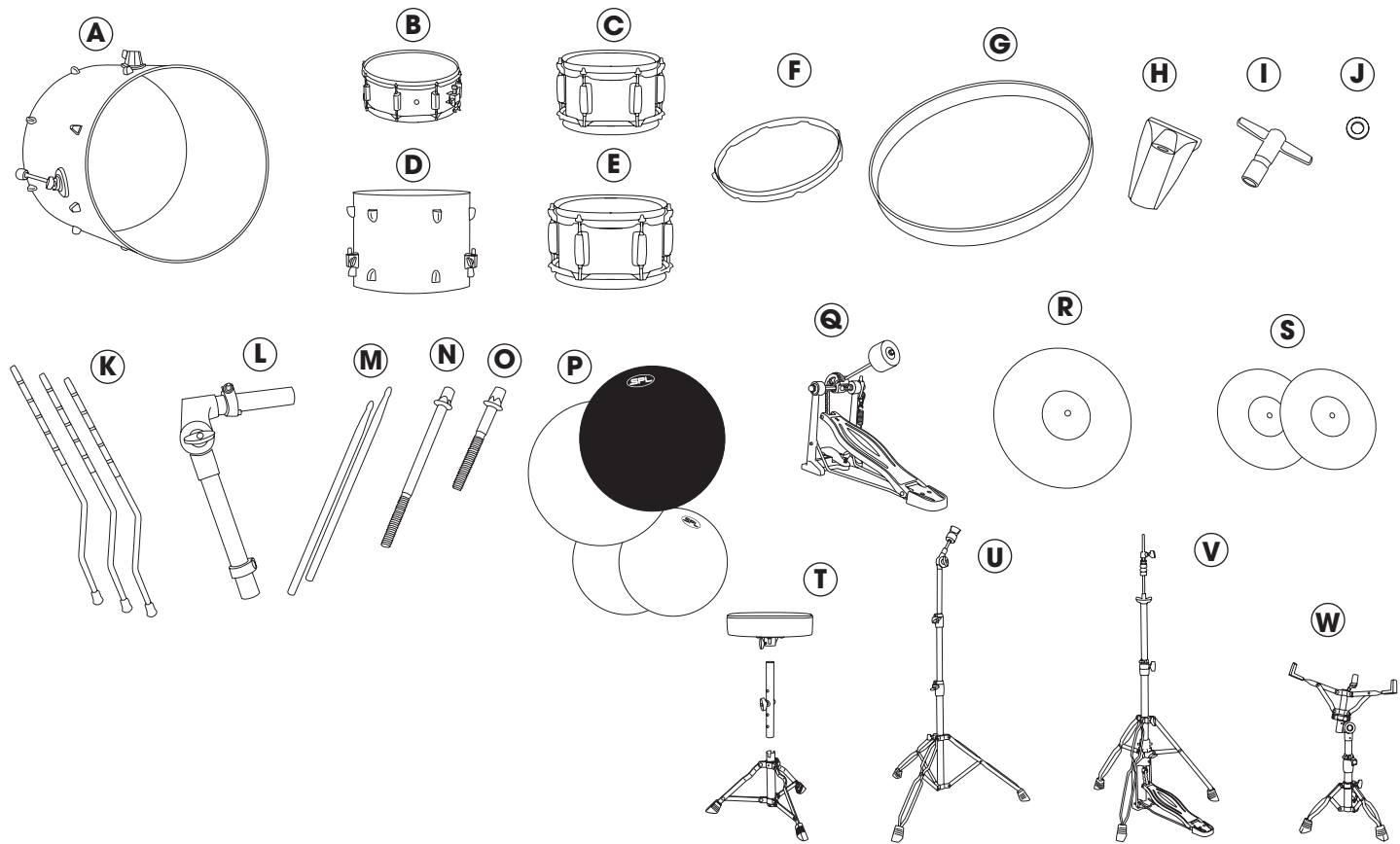   Two Mounted Tom Hoops
   Two Bass Drum Hoops
(M) Pair of Drumsticks

Bag Packaged Parts:

(N) 16 Long Tension Rods for Bass Drum
(O) 24 Short Tension Rods for Floor/Mounted Tom
(P) 16 Bass Drum "Claws"
(Q) Drum Key
(R) Washers

5-Piece Complete unity kit Parts Index
D4522

SET INCLUDES:

- **A** 22 x 16" Bass Drum Shell
- **B** 14 x 5" Snare Drum (assembled)
- **C** 10 x 8" Tom (assembled)
- **D** 16 x 14" Floor Tom Shell
- **E** 12 x 9" Tom (assembled)
- **F** Two 16" Tom Hoops
- **G** Two Bass Drum Hoops
- **H** 16 Bass Drum Claw Hooks
- **I** Drum Key
- **J** Washers
- **K** Three Floor Tom Legs
- **L** Two Tom Arms
- **M** Pair of Drumsticks
- **N** 16 Long Tension Rods for Bass Tom
- **O** 16 Short Tension Rods for Floor Tom

P D4522 Drum Heads:

22" Clear Bass Drum Head (Batter Side)
22" Black Resonant Bass Drum Head (Front Side)
16" Clear Head (Batter Side)
16" Clear Head (Resonant Side)

Hardware*:

- **Q** Bass Drum Pedal
- **R** 18" Cymbal
- **S** Pair of 14" Hi-Hat Cymbals
- **T** Drum Throne
- **U** Cymbal Stand
- **V** Hi-Hat Stand
- **W** Snare Drum Stand
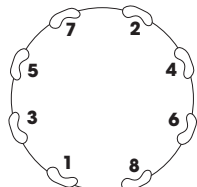
	Hardware, Cymbals, Drum Throne	
*D4522 5-Piece Complete Unity Kit	Hardware, Cymbals, Drum Throne	Included
*D4420 4-Piece Shell Pack Plus Unity Kit	Cymbals, Drum Throne	Sold Separately

Assembly Instructions: D4420, D4522

Bass Drum Head Assembly

FRONT - Audience Side

Washer

Bass Drum Hoop

Bass Drum Claw
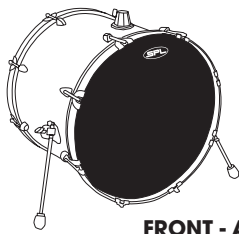
Long Tension Rod

Shell

Bass Drum Lug

**1.** Place black bass drum head with the SPL logo on front of the bass drum shell.

2. Place bass drum hoop onto drum head.

3. Insert long tension rod / washer / bass drum claw hook assembly into bass drum lug. Make sure claw hook is secure on the bass drum hoop. Tighten with your fingers.

4. Repeat this for all the lugs on one side of the drum.

5. After all tension rods on one side are finger tight, use the drum key to tighten the #1 tension rod 3 turns. Follow these steps for tension rods #2 through #8 in a criss-cross pattern as shown. Repeat this pattern, tightening each rod one half turn until the drum head is taut and wrinkle free.

6. Repeat for the clear batter head on the opposite side of the drum.
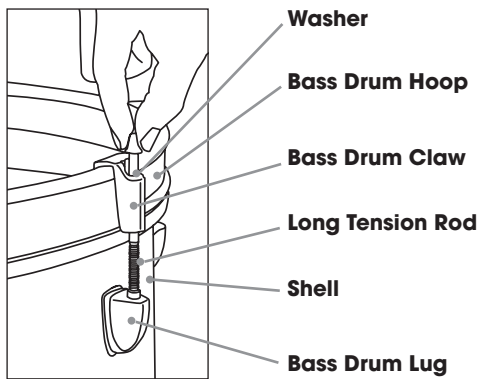
Bass Drum Leg Assembly (Spurs)
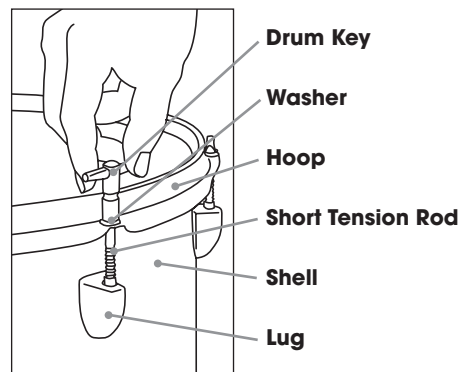

Wing Nut
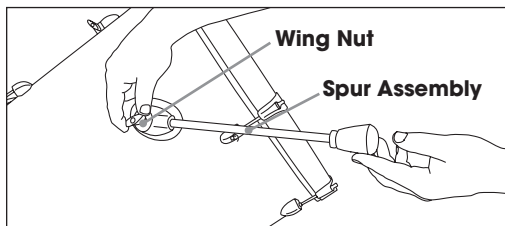
Spur Assembly

1. Loosen wing nut on spur assembly.

2. Rotate the bass drum spur down and forward.

3. Tighten the bass drum spur into the forward position.

Tom and Floor Tom Head Assembly

Drum Key

Washer

Hoop

Short Tension Rod

Shell

Lug

1. Place drum head on top of the drum shell.

2. Place the metal hoop over the drum head, aligning the holes in the hoop with the drum lugs.

3. Insert short tension rods with metal washers through the holes in the hoop.
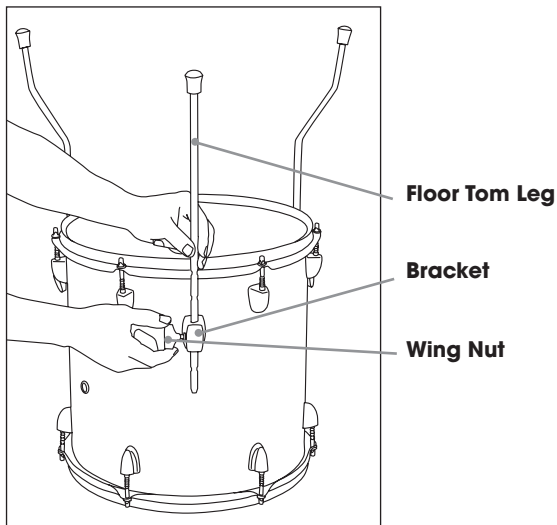
4. Thread the tension rods into the lugs and finger tighten.

5. Using the drum key, gradually tighten each tension rod in equal amounts using the same criss-cross pattern as done on the bass drum until the head is taut and wrinkle free.

6. Repeat above steps for the bottom of the drum with the resonant side drum head.
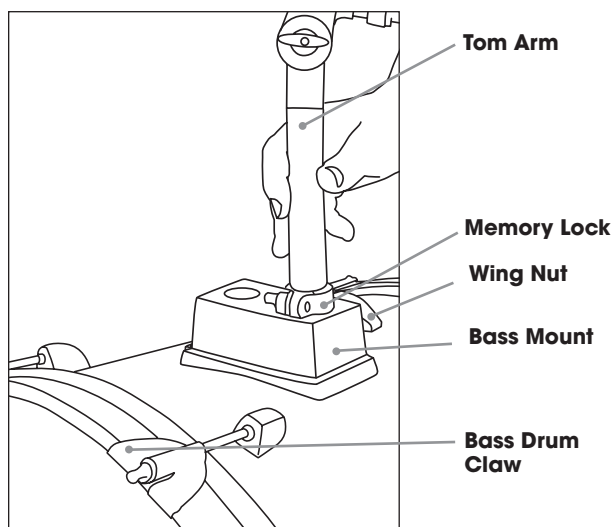
Floor Tom Leg Assembly

Floor Tom Leg

Bracket

Wing Nut

1. Insert floor tom leg into the bracket.

2. Tighten the wing nut on the bracket.

3. Repeat for remaining legs.

4. Adjust height of legs for comfortable playing style.

Mounting the Toms to the Bass Drum

Tom Arm

Memory Lock

Wing Nut

Bass Mount

Bass Drum Claw

Wing Nut

Tom Mount

Memory Lock

1. Insert long section of the first tom arm a few inches into the bass mount. Wing nut faces left when standing behind base drum.

2. Tighten the wing nut on the bass mount.

3. Loosen the wing nut on the tom arm and position the top part of the tom arm to just below horizontal and retighten the wing nut.

4. Place the mounted tom onto the tom arm and tighten the wing nut on the tom mount.

5. Repeat for the second tom (D4522).

6. Adjust height and angle of toms for comfortable playing style.
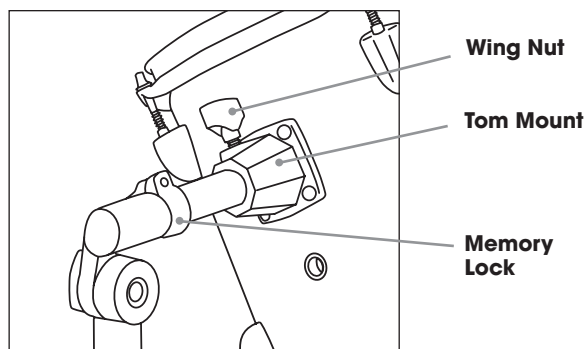
7. Secure memory locks for additional stability and memory by tightening the collar of the memory lock to the mounts of the bass and tom. The next time you need to set up the drums, the memory locks will ensure the same angle and height.

Hardware: D4420, D4522

Cymbal Stand Assembly

Cymbal goes here

Upper Tube

Wing Nut

Stand Base

Tilter Adjustment
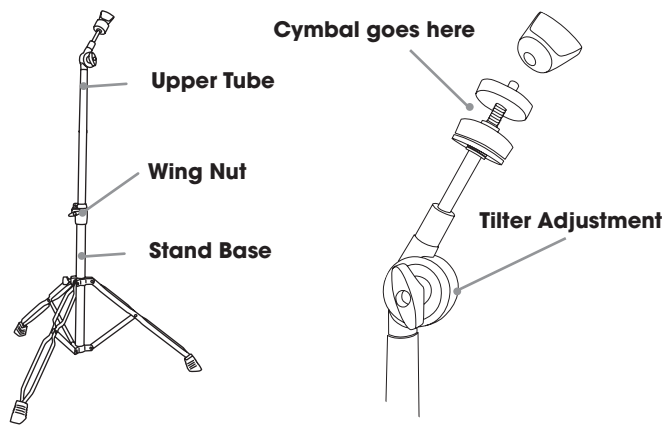
1. Extend legs to open position. Tighten wing nut.

2. Slide upper tube into stand base and set desired height by tightening wing nuts.

3. Place cymbal (D4420 cymbals sold separately) between felt pads. Tighten wing nut above cymbal only enough to hold cymbal and felts, but loose enough to let cymbal move freely when struck.

4. Set desired cymbal angle using tilter adjustment.

Snare Drum Stand Assembly

Snare Basket

Basket Adjustment

Tilter Assembly

Height Adjustment

Stand Base Adjustment
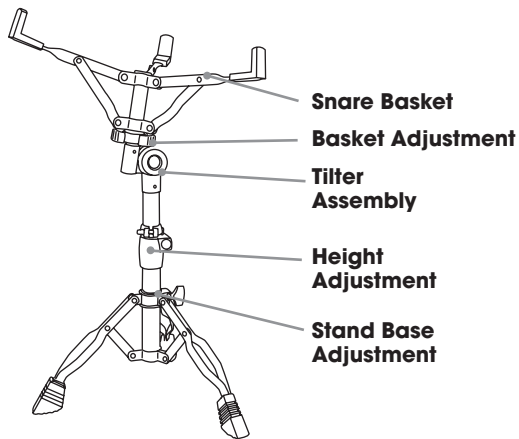
1. Extend legs to open position and tighten wingnut.

2. Insert snare basket into stand base and tighten the wing nut at the desired height.

3. Adjust the basket to the desired angle with the tilter assembly.

4. Place drum in snare basket. The basket can be adjusted to grip and fit the drum.
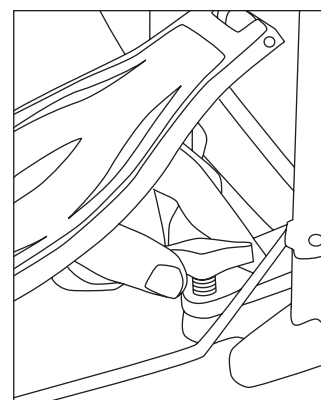
Attaching the Bass Drum Pedal

Beater

Sprocket
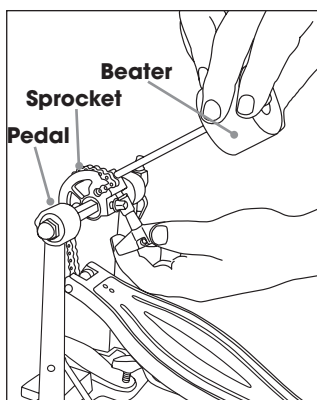
Pedal

Toe Clamp

1. Insert the felt beater into the bass drum pedal sprocket and tighten with the drum key.
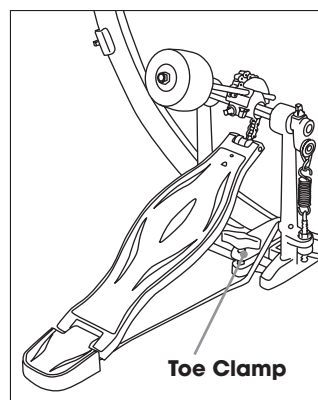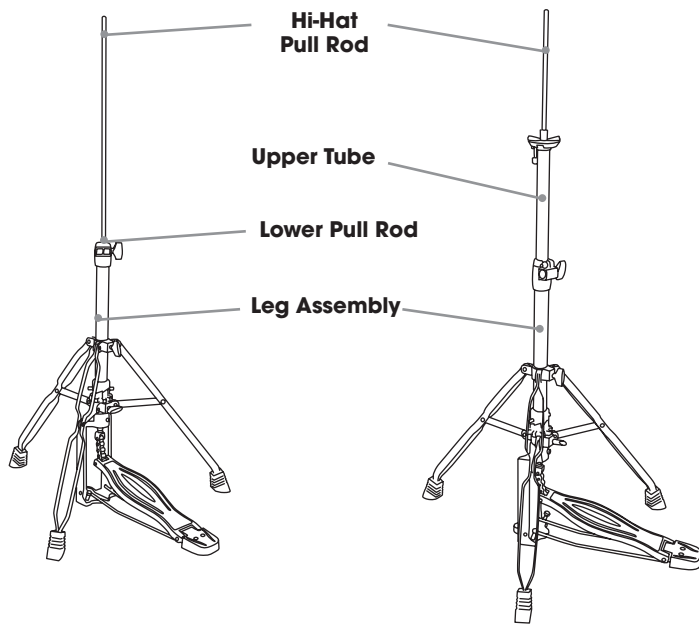
2. Attach bass pedal to the bass drum hoop via the toe clamp.

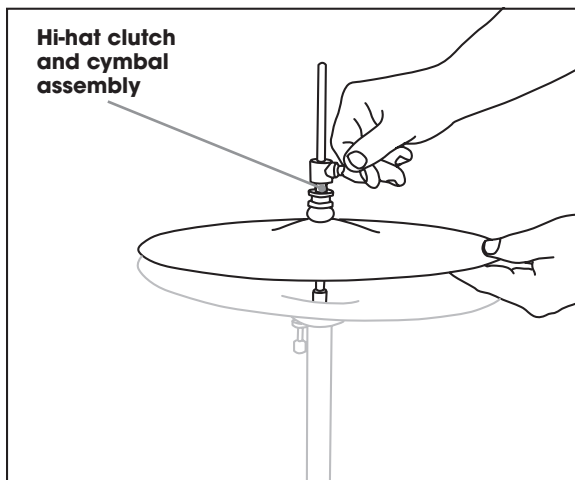**3.** Tighten the wing nut on the toe clamp until secure.

Hi-Hat Cymbal Stand Assembly

- **Hi-Hat Pull Rod**
- **Upper Tube**
- **Lower Pull Rod**
- **Leg Assembly**

1. Thread hi-hat pull rod into lower pull rod leg assembly.

2. Slide upper tube over the hi-hat rod and into leg assembly. Tighten the wing nut at desired height.

3. Place one hi-hat cymbal onto the hi-hat rod with the bottom side of the cymbal facing up.

4. Remove lower retaining nut and one rubber washer from hi-hat clutch. Place the hi-hat clutch into the top of the second hi-hat cymbal, and reassemble the rubber washer and retaining nut under the cymbal. The cymbal should rest between the two rubber washers.

5. Place the hi-hat clutch assembly and cymbal onto the hi-hat rod. Tighten the wing nut on the hi-hat clutch with the top cymbal approximately one to two inches above the lower cymbal. Depressing the hi-hat pedal will engage the two cymbals.
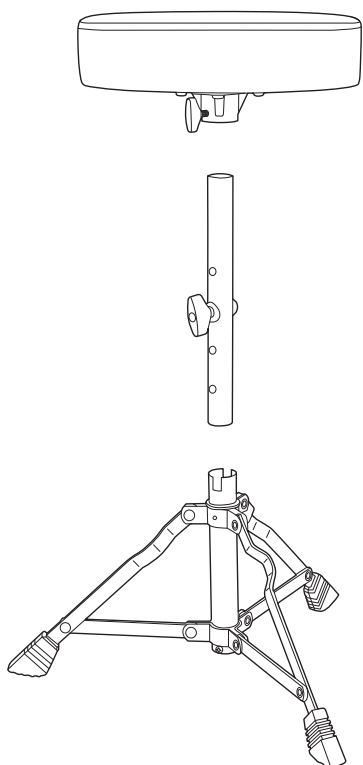
Close Up Of Hi-Hat Clutch Assembly*

Hi-hat clutch and cymbal assembly

*D4420 cymbals sold separately.

- **Clutch**
- **Rubber Washers**
- **Upper hi-hat cymbal goes here**
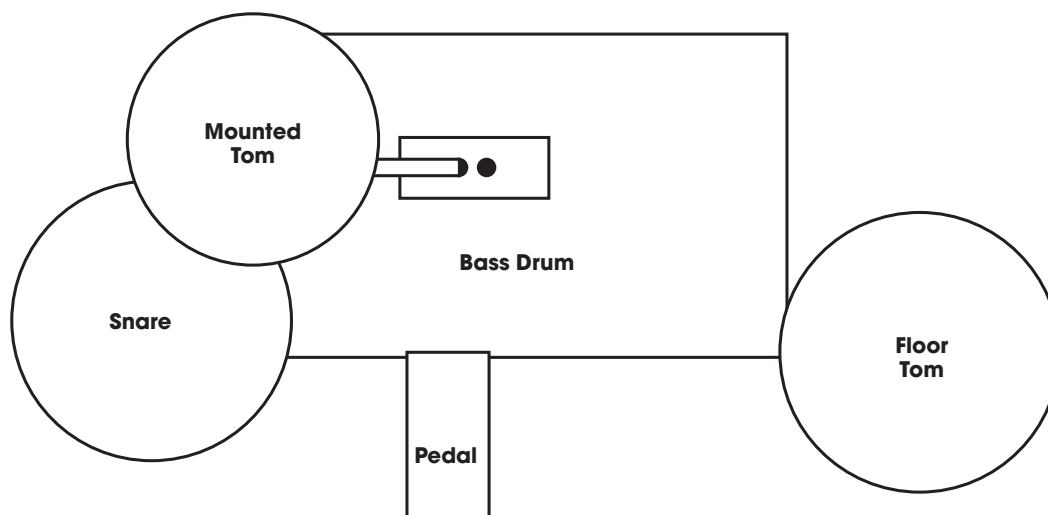- **Lower Retaining Nut**
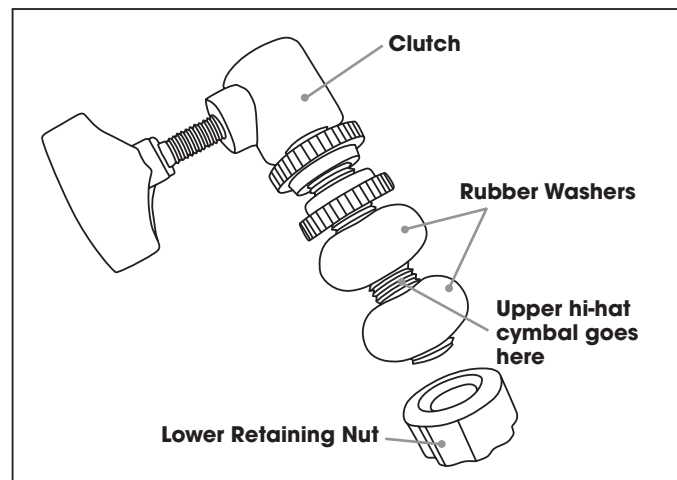
Assembling the Drum Throne

1. Fold out legs of base.

2. Place upper tube into base and tighten height adjustment wing nut. Use the second hole position as shown for comfortable playing style.

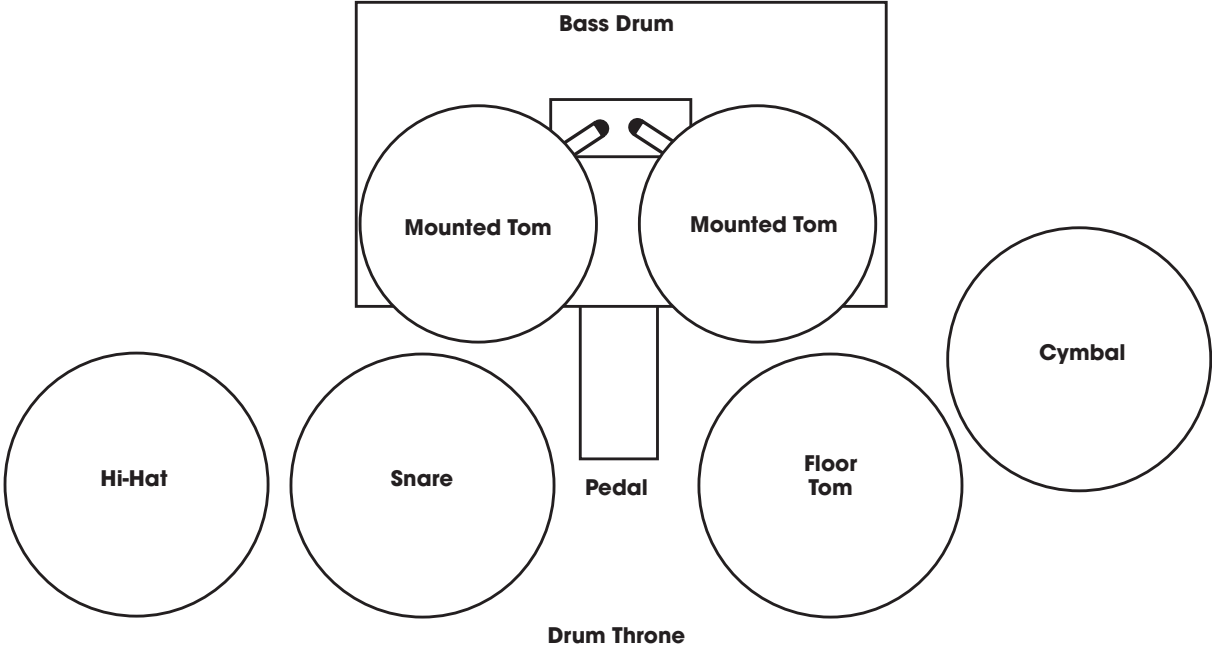**3.** Place seat top and tighten wingnut.

*D4420 drum throne sold separately.

Top View of
Drum Placement: D4420

Mounted
Tom

Bass Drum

Snare

Pedal

Floor
Tom

Top View of
Drum Placement: D4522

Bass Drum

Mounted Tom

Mounted Tom

Cymbal

Hi-Hat

Snare

Pedal

Floor Tom

Drum Throne

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