



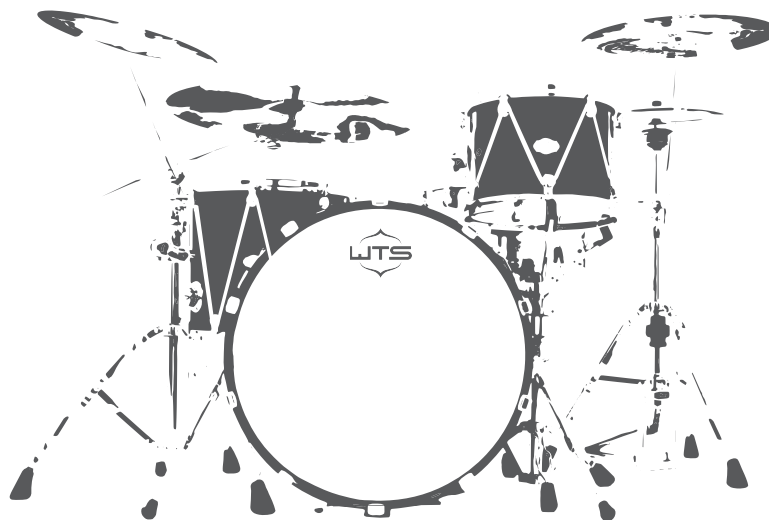
WELCH TUNING SYSTEMS, INC.

WTS Epiphany Series™ Owner's Manual

Thank you for purchasing the WTS Epiphany Series™ featuring the Welch Tuning System™ (WTS).

To get the most out of these premium drums, and use them in a safe manner, we urge you to read this Owner's Manual before using WTS.

The cautions given in the following Safety Precautions section are provided to prevent unexpected injuries or accidents. Please understand each of the cautions and use WTS in a safe and proper manner.



SAFETY PRECAUTIONS

Preventing Unexpected Injuries and Accidents

- Never use a damaged or defective cable. Breakage could result in injury. Carefully inspect cable for any flaws or defects prior to assembly.
- Follow all proper cable winding procedures outlined in this manual.
- Always replace cable if damaged or after 6 months of use.
- Never use a tool to assist in tensioning the cable. The tuning knob is designed to be turned by hand only.
- Do not over-tighten drum. When the tone of the drum chokes up or the hoops begin to deform, you are over-tightening the drum.
- Do not place your face close to the instrument when changing or adjusting the cable.
- Cable ends can be sharp and can cause injuries.

ASSEMBLY INSTRUCTIONS

TIP: Unpack all contents onto a clean area, and give yourself plenty of room to work. Check that all contents are present prior to assembly.

Pay close attention to the badge orientation so you always know which side of the drum shell is the top/bottom or front/back, and make sure you attach the tuning knob in the correct orientation (not upside-down; see images for reference).

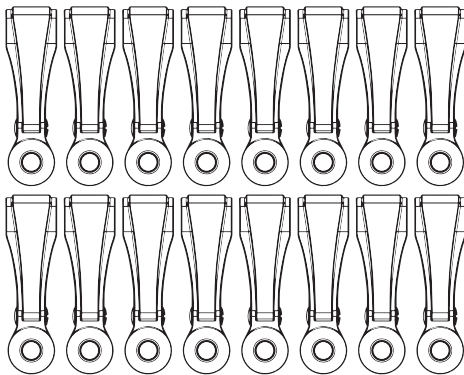
Tools Needed (not included)

3/8" wrench or socket 

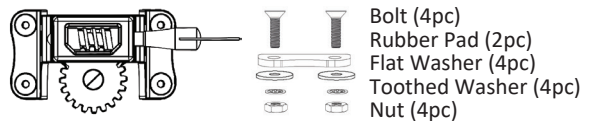
1/8" hex wrench 

Contents - WTS Epiphany Series 3PC Shell Pack

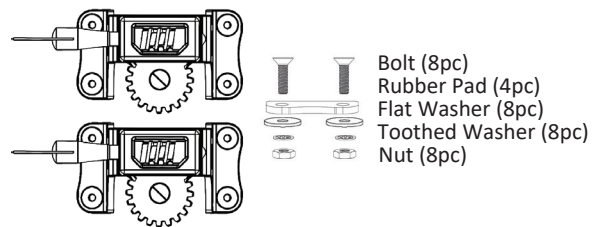
CA101 Bass Claw (16pc)



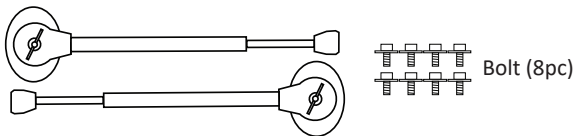
TA101-R Tuning Knob (1pc) + mounting hardware



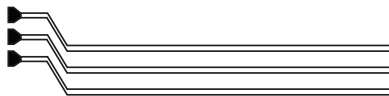
TA101-L Tuning Knob (2pc) + mounting hardware



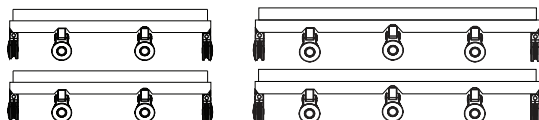
Bass Drum Spur (2pc) + mounting hardware



Floor Tom Legs (3pc)



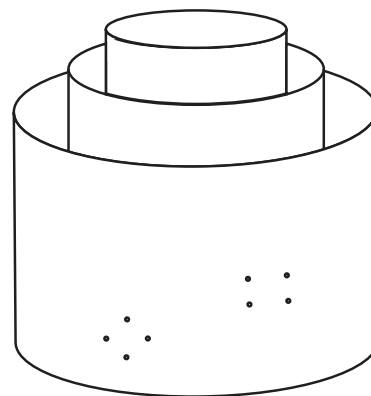
Hoops with Pulleys:
Rack Tom (2pc) + Floor Tom (2pc)



Drum Heads:
Bass (2pc), Rack Tom (2pc), Floor Tom (2pc)



Drum Shells:
Bass (1pc), Rack Tom (1pc), Floor Tom (1pc)
Snare drum not included.



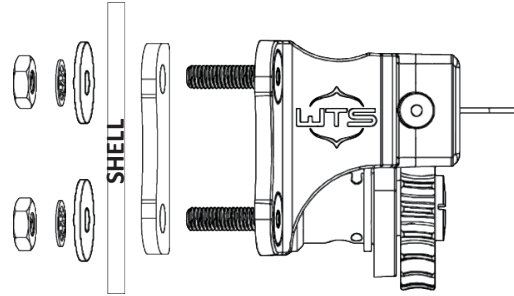
Bass Drum Hoops (2pc)



TUNING KNOB (TA101) INSTALLATION

Bolting to Shell:

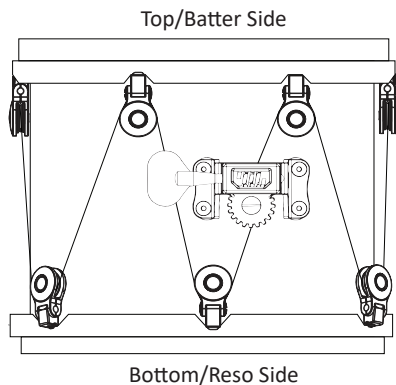
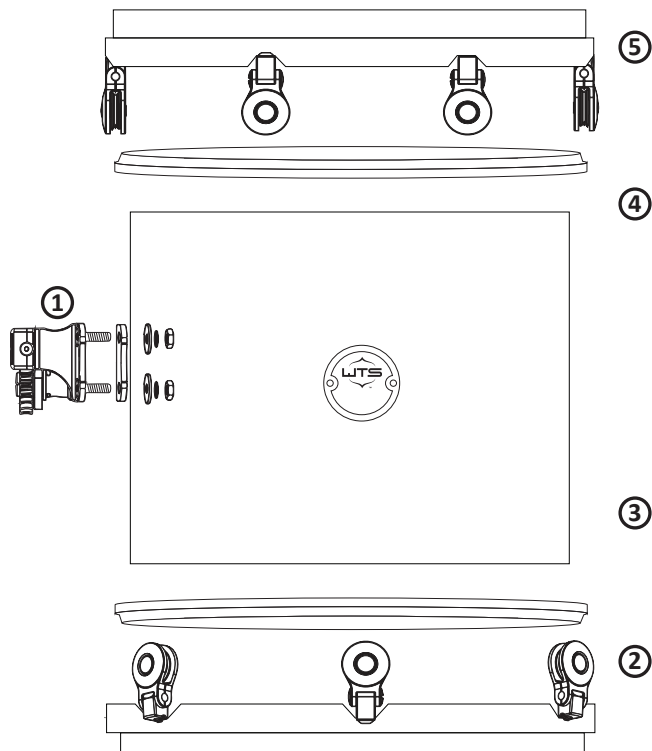
1. Place rubber pads and tuning knob (TA101) against outside of shell.
2. Align tuning knob mounting holes with rubber pad holes and holes drilled in shell be sure tuning knob is right side up (check with drum badge). Assemble bolts through the tuning knob mounting holes.
3. Assemble flat washer, toothed washer, and nut on the inside of the shell. Tighten nut until snug and rubber pad begins to buldge. **DO NOT OVER-TIGHTEN.**



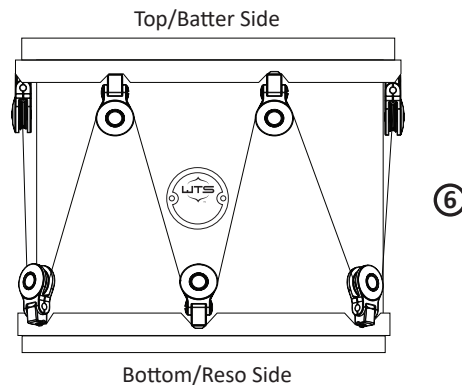
NOTE: See Tuning Knob maintenance notes on page 8.

12" Tom Tom Assembly

1. Bolt TA101-L to shell.
2. Place resonant head into bottom hoop.
3. Place shell onto resonant head.
4. Place batter head on shell.
5. Place top hoop over batter head.
6. Align hoops as pictured below, using the badge as a reference point.
7. Assemble cable (follow instructions for replacing heads / cable on page 8).
8. Check that your fully assembled drum looks like the drawing below.



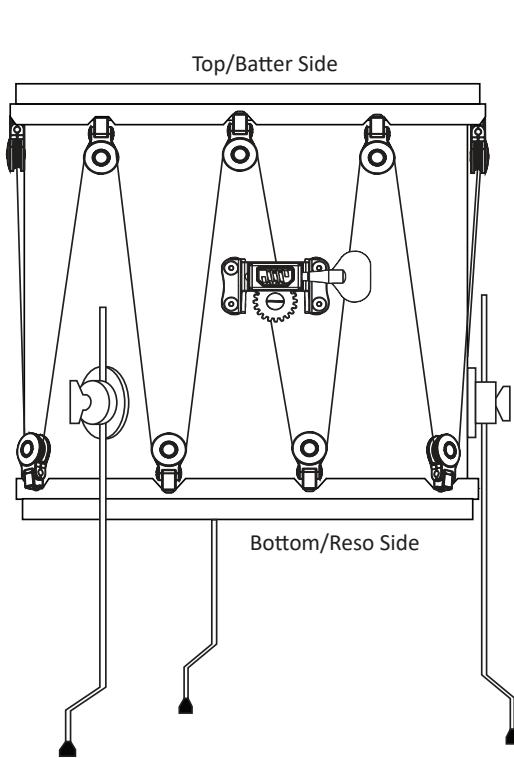
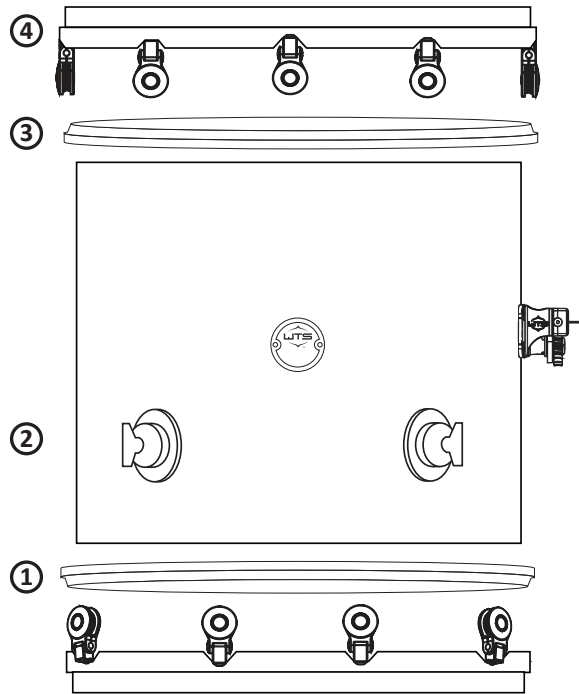
SIDE VIEW (A)



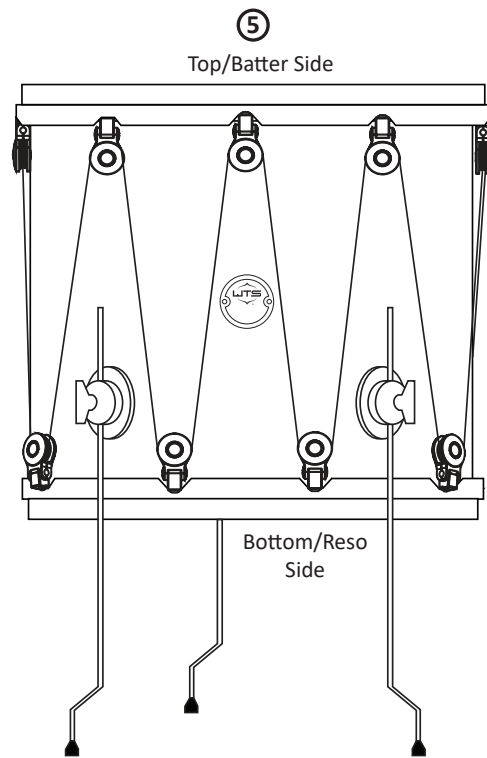
SIDE VIEW (B)

Floor Tom Assembly

1. Place resonant head into bottom hoop.
2. Place shell onto resonant head.
3. Place batter head on shell.
4. Place top hoop over batter head.
5. Align hoops as pictured below, using the badge as a reference point.
6. Assemble cable (follow instructions for replacing heads / cable on page 8).
7. Check that your fully assembled drum looks like the drawing below.



SIDE VIEW (A)



SIDE VIEW (B)

Bass Drum Assembly

1. Attach bass claws to bass hoops where Velcro is present.

2. Place front hoop on ground and resonant head into front hoop.

3. Place shell onto resonant head.

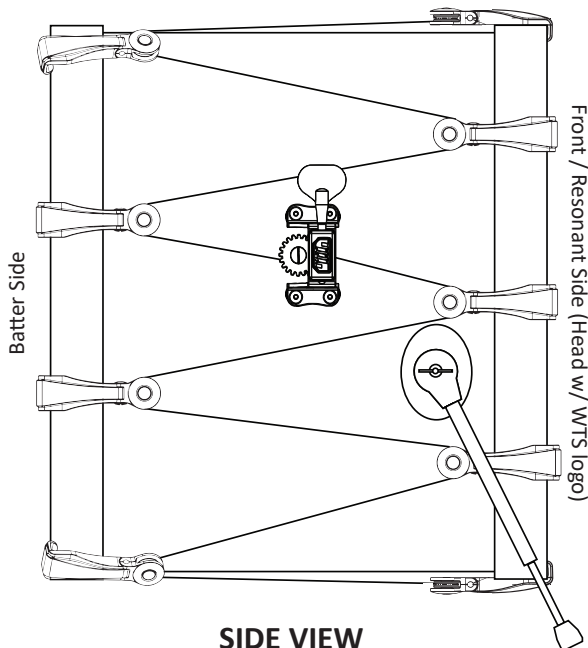
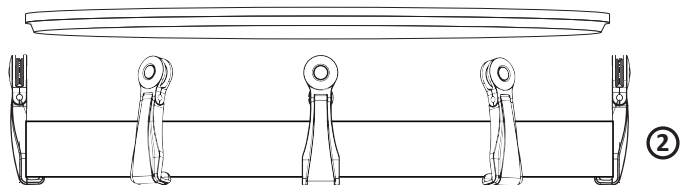
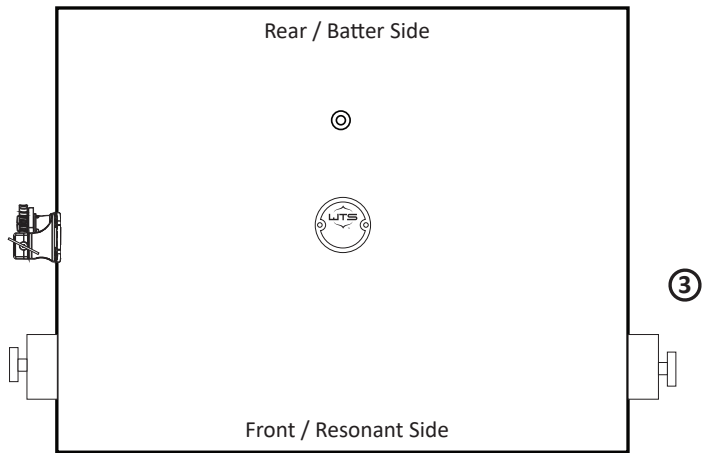
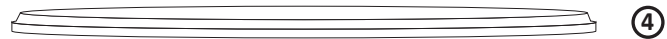
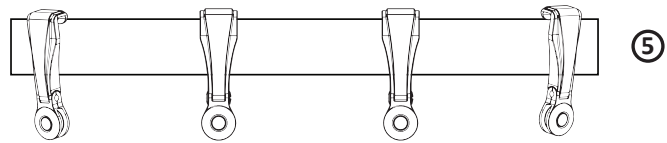
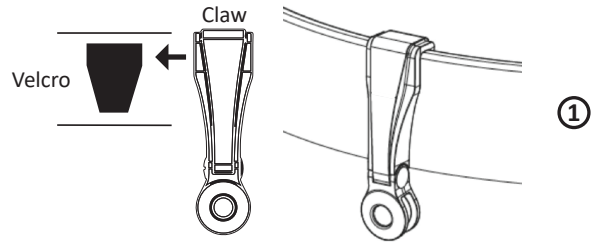
4. Place batter head on shell.

5. Place batter side hoop over batter head.

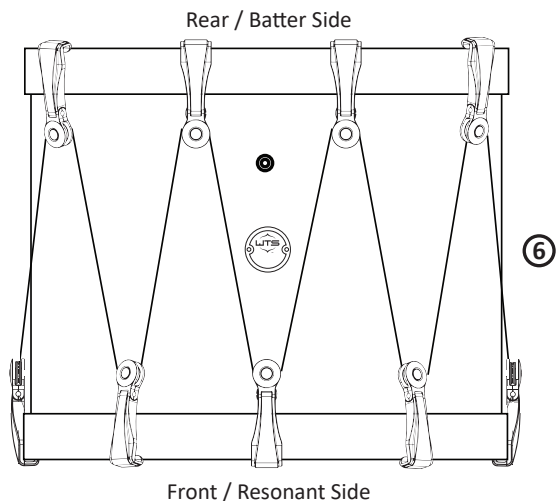
6. Align hoops as pictured below, using the badge as a reference point.

7. Assemble cable (follow instructions for replacing heads / cable on page 8).

8. Check that your fully assembled drum looks like the drawing below.



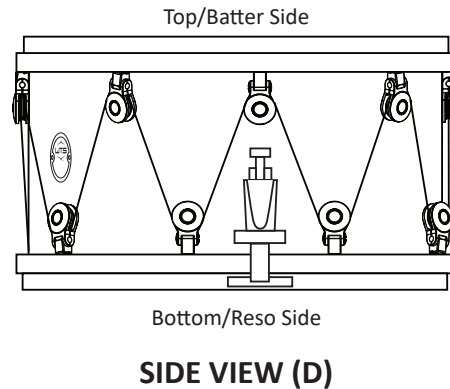
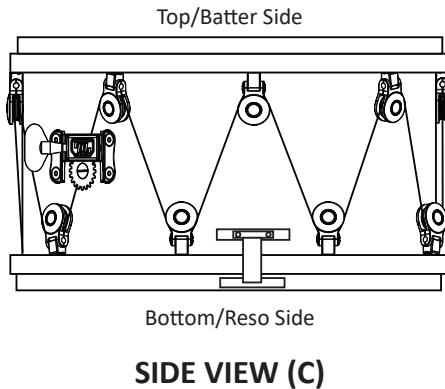
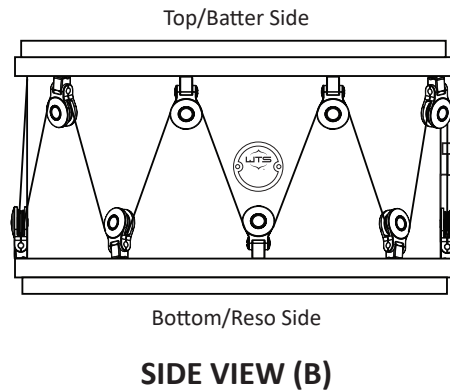
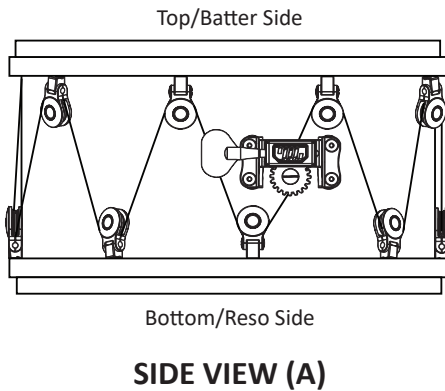
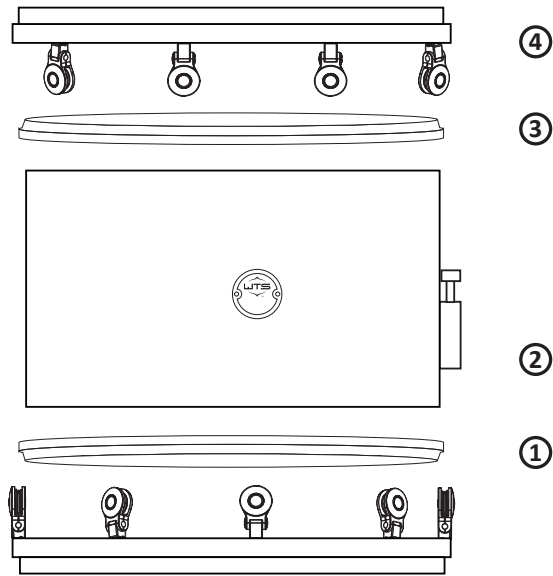
SIDE VIEW



TOP VIEW

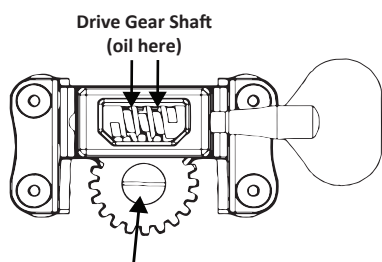
Snare Drum Assembly

1. Place resonant head into bottom hoop.
2. Place shell onto resonant head.
3. Place batter head on shell.
4. Place top hoop over batter head.
5. Align hoops as pictured below, using the badge as a reference point.
6. Assemble cable (follow instructions for replacing heads/cable on page 8).
7. Check that your fully assembled drum looks like the drawing below.



Instructions for
REPLACING HEADS/CABLE
on the following pages.

TUNING KNOB



Break-in period: New tuning knobs will have a break-in period. In the initial couple of weeks of use, you will notice small metal particles and stiffening of the gear. This is normal. When you notice this, place 2-3 drops of 3-in-1 oil on the drive gear shaft of the tuning knob and use a clean rag to remove any metal residue.

Friction adjustment: To lock tension or make the handle harder to turn, lightly snug down the friction adjustment bolt on the front of the gear.

Caution: Do not over-oil. Use minimum amount for smooth operation; over-oiling can result in tension slippage.

PERIODIC MAINTENANCE

To ensure optimal performance from WTS, periodic maintenance is suggested:

1. Vibration from drums can sometimes cause bolts too loosen. Check to make sure all pulley assemblies are snug on hoops, and all nuts inside drum shell are snug.
2. Inspect that pulley assemblies are clean and free from debris and that pulleys spin freely.
3. Inspect cable for damage and wear. Replace if damaged or after 6 months of use.

REPLACING HEADS/CABLE

Video Tutorial: wtsdrums.com/how-to-change-drum-heads

or, scan QR code:



1. Remove cable from drum by loosening tensioner and unthreading cable from winding post.
2. Unlace cable from pulleys, and replace heads.
3. Align pulleys to tuning knob by rotating hoops (**Fig. 1**). Take the cable from package, uncoil, and grasp the end with no ball.

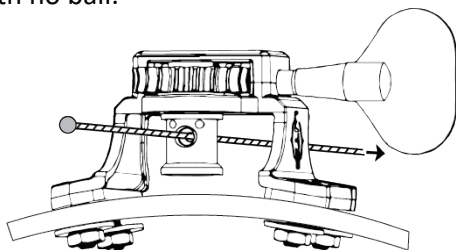


Fig. 2

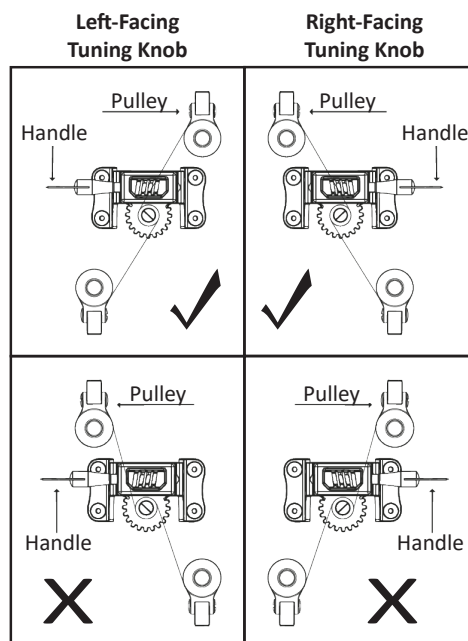


Fig. 1

4. Thread the end of the cable with no ball through the large hole in the winding post. Pull the cable through until ball stops in receptacle (**Fig. 2**).

REPLACING HEADS/CABLE (cont.)

5. Lace cable through pulley fixtures starting with the closest pulley to the tuning knob, then to the next pulley on the opposing hoop, until you have threaded through all of the pulleys (**Fig. 3**).

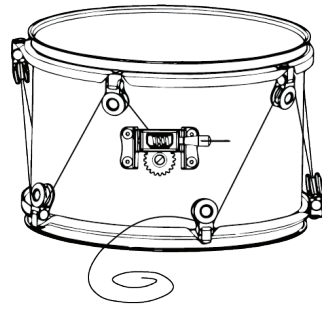


Fig. 3

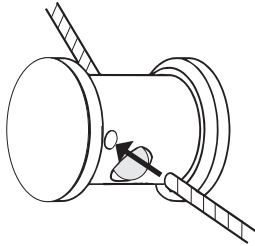


Fig. 4

6. Thread cable through one of the two small holes in the winding post (of the tuning knob) from the same side as the ball receptacle (**Fig. 4**).

7. Thread the cable back through the second hole (**Fig 6a**), leaving only a small amount sticking out (approximately 1/2") and pull the cable tight until the cable cinches in the groove between the two small holes (**Fig. 5b**).

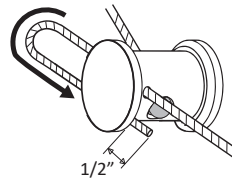


Fig. 5a

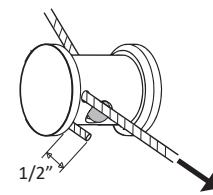


Fig. 5b

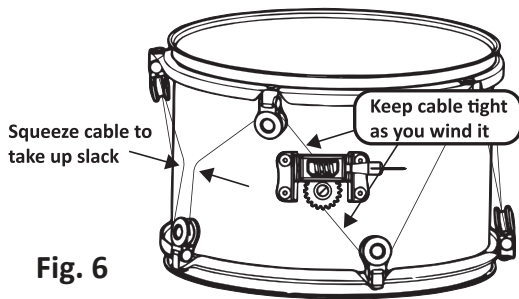


Fig. 6

8. Take up slack in the cable with a free hand and begin winding the post by turning the handle of the tuning knob clockwise (**Fig. 6**). Keep the cable taut while winding.

9. Guide the cable as you turn the tuning knob to ensure a tight, even wind (**Fig. 7**). Be sure that cable winds over the groove of the winding post.

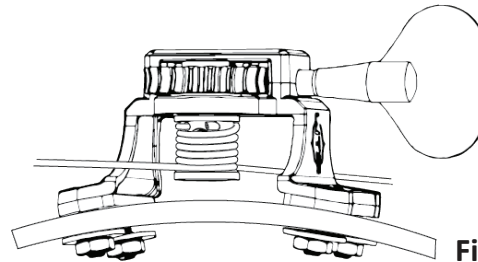
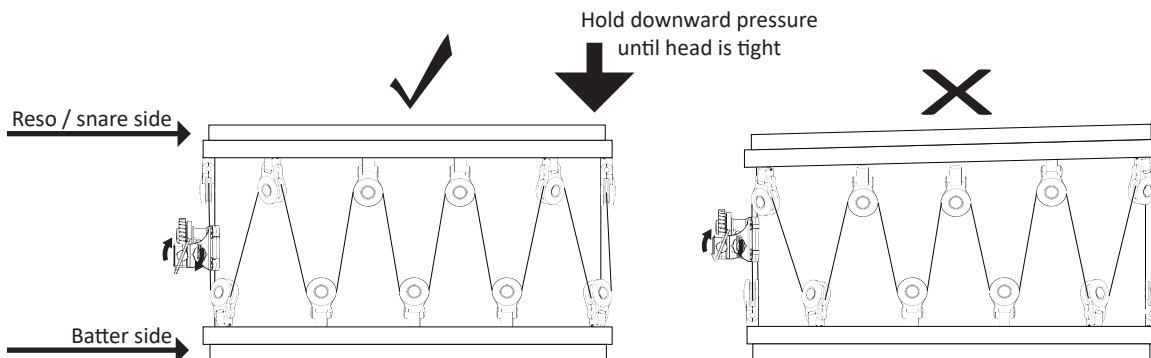


Fig. 7

Note for Snare Drums/High Tension Drums

When tightening snare heads down for the first time: Before the cable is tight, flip the drum upside-down and place firm pressure on the resonant-side hoop opposite the tuning knob while tightening the cable to ensure hoops stay parallel (not lopsided).



Helpful Tips & Tricks

Tips & Tricks Video Tutorials: wtsdrums.com/how-to-change-drum-heads

or, scan QR code:



1. Re-using cut-to-size cable:

WTS cable is available in exact-length cable (included with all WTS Epiphany Series drums) and cut-to-size cable. For cut-to-size cable, the end of the cable will often fray after it is cut.

- In order to avoid fraying, apply a small drop of super glue to the end of the cable after it is freshly cut.
- Allow the glue to dry before stringing up your drum. This will help prevent cable from fraying which will make future head changes easier, and potentially lengthen the life of the cable.

2. Setting and re-setting your heads:

WTS is a free floating system; after a while the hoops and heads may shift out of center, which can sometimes cause unwanted overtones.

- When you notice this, simply loosen tension on the drum, re-center the heads and hoops, and re-tighten the drum.
- To keep everything aligned while you tighten the drum back up, you can also apply a small amount of pressure on the hoop opposite the tuning knob (see previous Note for Snare Drums/High Tension Drums on page 9).
- Additionally, to get more life out of your drum heads (resonant snare side heads in particular), rotate the heads 180 degrees every so often.

3. Speeding up head changes with an electric drill:

Often used for guitars, a “Drill Bit Peg Winder” tool easily attaches to your power drill or screwdriver to speed up the WTS cable winding process.

- We highly recommend you use a drill bit peg winder with a rubber coating, operate at slow speeds only, and be careful not to damage the tuning knob in the process.

Find this tool available for purchase at your local music store and online.



WTS Epiphany Series™ Limited Warranty

Welch Tuning Systems, Inc. uses the best materials and the highest standards of craftsmanship to manufacture instruments and hardware to be the finest in quality, style, appearance, and playing performance.

Read the full warranty and return policy on the Welch Tuning Systems, Inc. website:

**WTS Epiphany Series™
Warranty & Return Policy:**

wtsdrums.com/warranty-and-return-policy

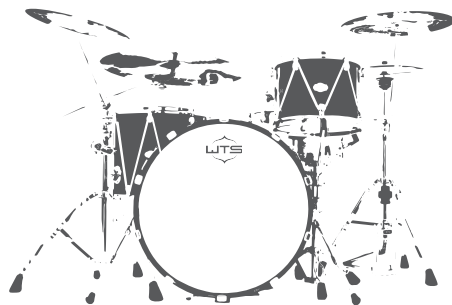




WTS DRUMS

Pure Tone • Effortless Tuning

WTS Epiphany Series™
Assembly Instructions:
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