



SF Online Sales, Inc.  
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*"Fountain, Fun and Fondue Sales"*

**SEE THE COMPLETE VIDEO AT: [www.sweetfountains.com/videos.html](http://www.sweetfountains.com/videos.html)**

**PLEASE NOTE:** Bearings and seals are not warranted items (think motor oil change on a car). They are maintenance items that need to be checked frequently. By letting these items fail and not servicing them, you could damage your motor or other parts. Motor damage caused by failed bearings is not warranted. **We do sometimes offer free bearing replacements to SF Signature Chocolate customers.**

To check your bearings, remove the bowl and turn the center shaft by hand. It should be able to turn by hand. If not, you need to replace your bearings. Any chocolate leaking into bearings or into motor housing is usually caused by failed seals. We suggest always checking seals when you replace bearings.

**TOOLS NEEDED:** Rubber Mallet (do not use metal hammer), Snap Ring Pliers, Vice, Bearing Punch (or substitute), Crescent Wrench, Hole Punch

- 1. Remove Bowl From Motor Housing:** For this document, the top of the bowl is the portion that holds chocolate and the bottom is the portion of the bowl that connects to the motor housing. Twist the bowl and remove from the motor housing.
- 2. Remove Star Coupling:** Remove "Star" motor coupling from the bottom of the bowl by carefully turning clockwise. The easiest way to do this is by connecting a crescent wrench on the top of the bowl shaft and wedging between one of the four pegs. Carefully put pliers on the "Star" piece and turn clockwise (to the right). **THE STAR MOTOR COUPLING IS REVERSE THREAD.**
- 3. Remove Snap Ring:** Using Snap Ring Pliers (available at most hardware stores), carefully pinch together and remove the snap ring.
- 4. Remove Center Shaft from it's Housing:** Take the bowl and put it on a ledge so the center shaft and it's housing (the entire protruded area) is hanging over the edge. Use a bearing punch or something similar (1/4" wrench or large hole punch will also work) and gently pound down from the top onto the bearings with a RUBBER mallet. Do not use a metal hammer. Continue to pound until the center shaft and bearings are completely out from the center shaft housing.
- 5. Remove Center Shaft Housing from Bowl:** Using a crescent wrench, remove the four pins inside the bowl by turning counterclockwise. This will separate the bowl from the housing. Set the bowl to the side.
- 6. Check Center Shaft Housing Seals:** On the top of the center shaft housing you will see two seals (they are stacked back-to-back within the housing). If these seals are not in good condition, chocolate is going to leak into your bearings causing them to seize. If seals are not smooth and in bad condition, go to Step 7. If seals are smooth and in good condition, go to Step 8. See attached photo for seal comparison.
- 7. Replacing Seals (if needed):** Turn the Center Shaft Housing upside down and put a large flat head screwdriver directly onto the rubber seals (not the metal ledge). **DO NOT POUND ON THE METAL LEDGE.** Pound down onto the seals until they are removed. Check and clean area and replace with new seals by gently and evenly pounding into place with a bearing punch (a smooth large socket may also work). The hollow portions of the seals should be touching each other in the middle. The solid parts of the seals should be on the top and bottom when pushed together.



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- 8. Reattach Center Shaft Housing:** Once seals are checked or replaced, reattach center shaft housing by threading the four posts through the housing and into the bowl. We suggest a firm connection, but do not over tighten. Please note, over tightening the posts can cause your cylinder to not fit on properly to the bowl. If this happens, very slightly loosen the posts.
- 9. Remove Bearings From Center Shaft:** NEVER POUND ON CENTER SHAFT THREADS. Now that your seals are confirmed good, we now want to replace the bearings. Please take note of how the bearings are attached prior to removal. There should be one bearing on each side of the ledge with the square portion being the top and the threaded portion being the bottom. With top bearing clamped in a vice, pound down on top of center shaft to remove from bearing. Then, turn the center shaft upside down and clamp the vice on the bottom bearing. Do not pound on the threads, but instead use a hole punch to pound on the inside of the center shaft. Both bearings should now be removed from the center shaft.
- 10. Install New Bearings Onto Center Shaft:** NEVER POUND ON CENTER SHAFT THREADS. For replacing the bearings, reverse the order of Step 9, but make sure to put bearings on evenly. A bearing press can also assist in this process.
- 11. Replace Center Shaft into housing:** Once bearings are completely put on, turn bowl upside down. Put the square portion in first through housing into bowl. Next, you will need a socket or other tool that lines up with the inner bearing race (the metal part) and a tool that is long enough that it won't touch the threads when pounding. Do not pound on the rubber portion of the bearing. Firmly and evenly pound down the center shaft into the housing. You will see the groove for the snap ring when completely into place.
- 12. Replace Snap Ring:** Using your Snap Ring Pliers, replace the snap ring back where it was upon disassembly.
- 13. Replace Star Coupling:** Using your hand, firmly rethread the Star Motor Coupling. Remember, the Star Coupling is REVERSE thread, so turn counterclockwise to tighten. The machine will retighten this piece upon use.
- 14. Check Center Shaft Housing:** To test all seals, put water into bowl and let sit for 5 minutes. Make sure no water has leaked through any seals. If water leaks, tighten pegs in bowl more.
- 15. Assemble Fountain:** Finally, make sure Bowl fits onto Motor Housing and that the Cylinder fits onto the bowl. If the Cylinder doesn't fit onto Bowl properly, you will need to either tighten or loosen (more likely) the four pegs to make it work.