

Spray post Stalling rev 1.1

Shawn Glover Oct 24, 2018

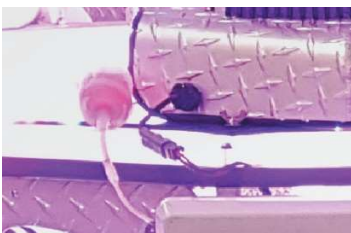


In proper operation, all three of the internal spray balls should be rotating and the entire manifold/post will be rotating as well.

When the internal spray post stops rotating it is most often the result of debris in the tank stalling one, or all, of the individual rotating spray balls.

Steps:

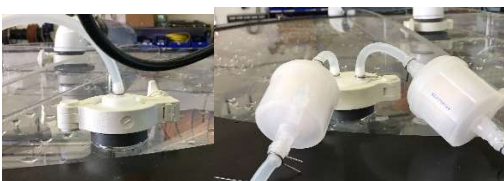
1. Turn lights to 0% or unplug the PBR
2. Disconnect power cords from the top light



3. Remove top light (team lift, with stepladders - Do not damage LEDs)
4. Loosen & remove spray post 2" triclamp



5. Loosen and remove nutrient addition triclamps



6. Remove Air Vent Filter, gasket and clamp



7. Swivel top spray plumbing counterclockwise out of top clamp's way



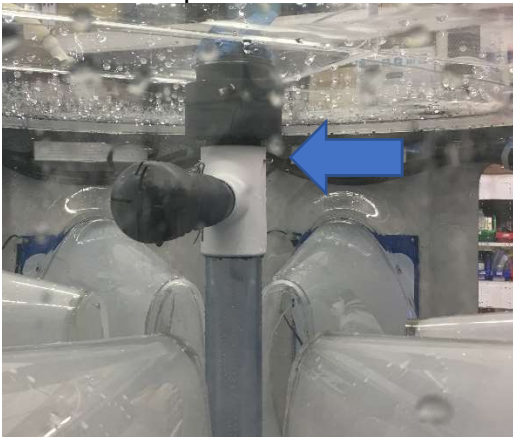
8. Disconnect QDCs from lid
9. Remove 12 Wingnuts from top clamp with washers



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10. Remove top clamp plate (black ring, held down by wingnuts)
11. Lift one side of lid 5-6" (enough height to fit arm under)
12. Pull the lower of the 2 cotter pins from the loop side



13. Remove the lid (team lift)
14. Remove Rotating spray post – align spray balls with vacant cone spaces in the upper row of cones & align bubble plate spokes with gaps between cones.
15. Remove spray balls and flush with warm water until free rotation is restored when held vertically down
16. Reassemble spray balls onto spray post and bend cotter pins to secure the spray balls to the post
17. While top of tank is open, with drain valve open, spray down tank walls and cones to remove any debris present, to ensure no particulate remains that could clog spray balls again.
18. Insert spray post into PBR sitting bubble plate on bottom dome with centralizer inside PBR Manifold
19. Straighten central post's cotter pin tip
20. Place lid onto PBR – align nutrient

- addition ports with nutrient pumps
21. Keep one side of lid lifted 5-6"
22. Insert cotter pin back into post while lifting post to align holes (this takes some coordination)
23. Lower lid AND position the spray post's centralizer into the manifold simultaneously
24. Spray post should be free to rotate and lid should be sitting flush with the top rim.
25. Check that bottom centralizer is centered in bottom dome (manifold hole)



26. Replace top clamp plate, place washers and tighten wingnuts.
27. Replace top spray post tube and attach 2" triclamp with gasket between triclamp faces
28. Replace top light
29. Replace air vent and QDCs
30. Replace nutrient addition triclamp ports