

<b>Date</b>	02-10-2012	<b>Service Note #</b>	4500-1031	<b>Updated</b>	06 Jul 2012
<b>Product</b>	ezfill 4500		<b>Created By</b>	A. Infante	
<b>Description</b>	Acme nut replacement				

<b>Release</b>	<input checked="" type="checkbox"/>	<b>Internal</b>	<input checked="" type="checkbox"/>	<b>Distributors</b>	<input type="checkbox"/>	<b>Customers</b>
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Parts Required	Serial Numbers Affected
New Acme Nut or New Bearing Assembly	

### Solution / Action

1) With a Phillips Head Screwdriver, remove two pan head screws from each side of the unit (four in total).



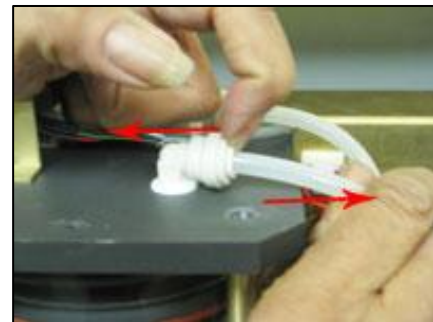
2) With a Phillips Head Screwdriver, remove four screws from back of the unit.



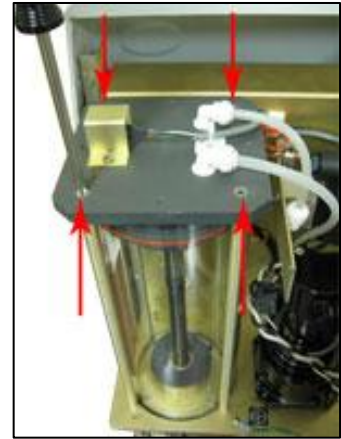
3) Gently slide back cover open without damaging the connecting wires.



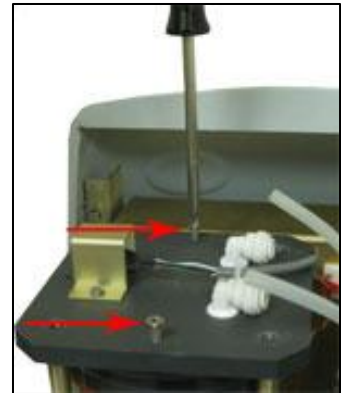
4) Remove tubing from white connectors by gently pushing white connector and pulling tube out.



5) Remove the four screws from cylinder cap with a Phillips Head Screwdriver. Be careful to not strip screw head.



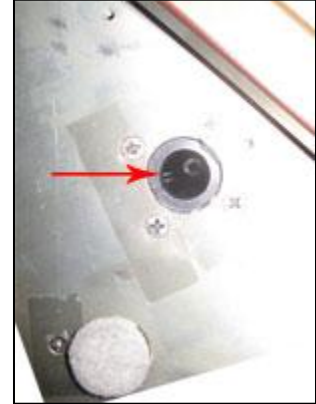
6) Use two screws removed from the cylinder cap (step 5) and insert them into two middle holes of cylinder cap. With a Phillips Head Screwdriver, turn both screws clockwise slowly until the cylinder cap comes off.



7) Using a towel, dry any excess water. If the piston is down with significant water then the water must be sucked out.



8) Slide the corner of the 4500 off the edge of the table so the lead screw hole is exposed and accessible from underneath. It is recommended to perform this step with assistance to hold the 4500 securely.



9) Insert a long Phillips Head Screwdriver (355 mm in length) from bottom into lead screw hole and loosen the lead screw. Do not fully remove the lead screw.



10) Using pliers remove pin.



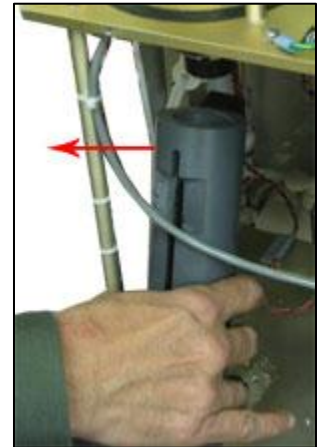
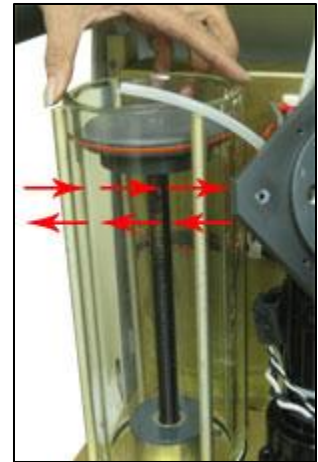
11) Using a Phillips Head Screwdriver, remove two screws from each black limit switch to disconnect.



12) Using a Phillips Head Screwdriver, remove four screws from underneath of the grey stopper.



13) With grey stopper loose, gently rock glass cylinder back and forth to break air seal. Then turn the glass cylinder counter clock-wise until the grey stopper comes off.



14) With a 3/32" Allen Wrench, loosen the two set screws from the pulley. Do not fully remove set screws.



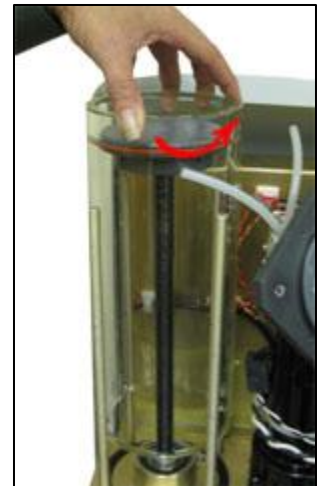
15) Using pliers, remove the black Acme Nut by turning counter clock-wise while holding the silver pulley to keep it from spinning. If possible, heat can be applied to the Acme Nut with a heat gun in order to loosen the adhesive. If this step is **successful** proceed to [step 16](#). If this step is **unsuccessful** and the Acme Nut cannot be removed the bearing assembly must be changed, please proceed to [step 17](#).



16) Screw in new black Acme Nut. Proceed to [step 27](#).



17) Rotate glass cylinder counter clock-wise until fully removed.



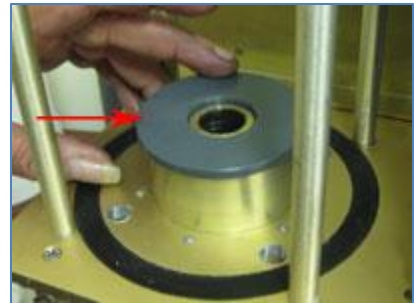
18) Using a 5/32" Allen Wrench, turn the four motor socket head screws clock-wise until loose. Do not fully remove.



19) Push the black motor to left gently in order to loosen belt tension. Remove black belt.



20) Remove the grey bearing cap.

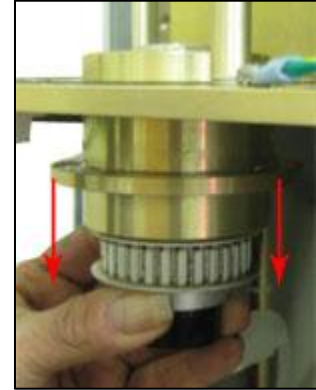


21) Using a Phillips Head Screwdriver, remove the six screws from the bearing assembly.

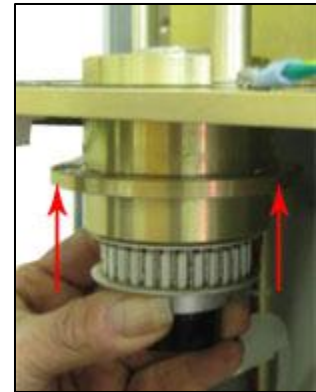




22) Slide the bearing assembly down and remove.



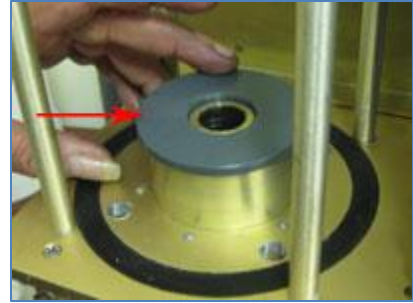
23) Insert the new bearing assembly.



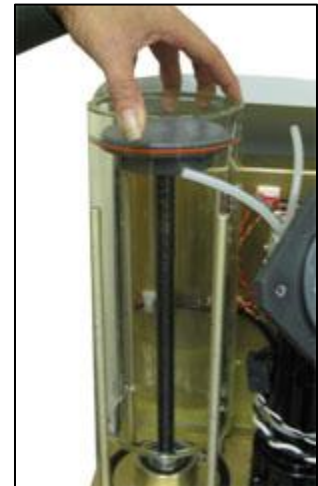
24) Slide the black belt on to the silver pulley then gently push the black motor to the right in order to achieve belt tension. While maintaining belt tension, use the 5/32" Allen Wrench to tighten four socket head screws.



25) Replace the grey bearing cap.



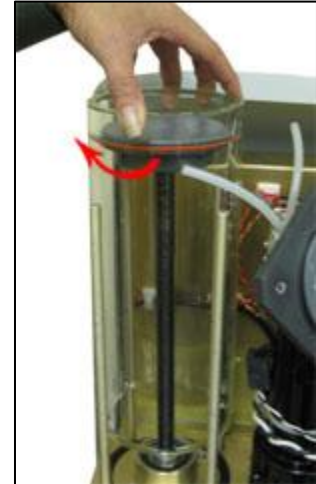
26) Place the glass cylinder back on.



27) Re-install the grey stopper and tighten the set screws on to the pulley.



28) Rotate the glass cylinder down using a clock-wise motion.



29) Using a Phillips Head Screwdriver, re-insert the four screws from underneath of the grey stopper.



30) Turn glass the cylinder until the hole on lead screw is lined up with the opening of the grey stopper in the upper limit switch notch.



31) Insert the pin so it is extending out ¼ inch.



32) Using a long Phillips Head Screwdriver (355 mm in length) insert and tighten the lead screw.



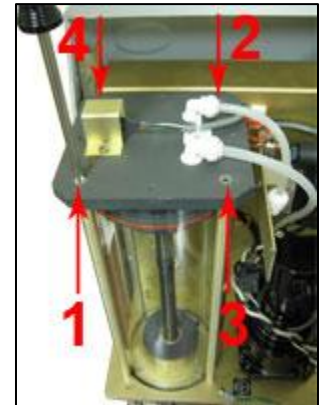
33) Turn the black belt until the pin is below the upper limit switch notch.



34) Using a Phillips Head Screwdriver, re-connect the black limit switches by inserting two screws into each.



35) Using a Phillips Head Screw Driver, re-attach the cylinder cap with four screws. Tighten the screws in a diamond pattern, assuring the cap is evenly secured.



36) Re-insert the tubing into the white connectors by gently pushing white connector and inserting tube.



37) Slide the back cover closed making sure to keep the wires above the gold plate so they are not pinched and damaged.



38) Using a Phillips Head Screwdriver, re-insert the screws on the back and sides of the instrument.

