



# DOSATRON®

WATER POWERED DOSING TECHNOLOGY



Scan the QR code to watch our D128R Troubleshooting video.

**800-523-8499 • [www.dosatronusa.com](http://www.dosatronusa.com)**

Proper protection, such as gloves, eye wear, and aprons, are recommended when disassembling a Dosatron.

## D128R Troubleshooting - Part 1

**This D128R Troubleshooting will cover: The medicator is clicking, but not drawing the solution or liquid is going down into the stock tank.**



**NOTE:** Before you start, make sure the unit is clicking. It would be helpful to have a strap wrench, #1 Phillips screw driver, and a large paper clip or awl.

**Step 1:** Unscrew and remove the lid. You may want to use a strap wrench (Part #: TOOL01).



**Step 2:** Grab the metal wishbone and pull the piston straight out. Set the piston aside.



**Step 3:** Unscrew and remove the black stem.



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## D128R Troubleshooting - Part 1



**Step 4:** Remove the top seal (Part #: J002) that is located between the blue body and the black stem.

**NOTE:** Sometimes the top seal remains in the body. If this happens, just remove it.



**Step 5:** Unscrew the gray hose nut if it isn't already removed.



**Step 6:** Unscrew the black cap and remove the bottom seal (Part #: J003) between the black stem and the cap.



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## D128R Troubleshooting - Part 1



**Step 7:** Inspect both seals for nicks, grooves, and wear. Make sure they aren't gummy, sticky, or missing. If the seals are dirty, you may be able to just clean them and reinstall. But if they are damaged or missing, it is definitely time to replace.



**Step 8:** Next, pick up the piston and inspect the plunger rod (Part #: P009) and slide valve (Part #: P010). The plunger rides inside the top seal to create suction. If there is a build up of scale or has deep scratches, it may not draw the correct amount of solution. If your plunger rod does have scale build up, just soak the piston assembly in a solution of Medicator Rx (Part #: CLEANSER-LS) for 24 to 48 hours. If the plunger rod has scratches it will need to be replaced.



**Step 9:** To change the plunger rod use a # 1 Phillips screw driver and remove the two wishbone screws and washers.



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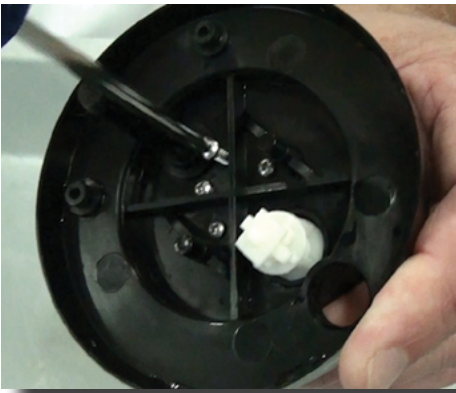
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## D128R Troubleshooting - Part 1



**Step 10:** Spread the wishbone and remove from the inlet valve.



**Step 11:** Remove the four screws in the center of the piston.



**Step 12:** Slide the actuator assembly out.



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## D128R Troubleshooting - Part 1



**Step 13:** Unhook and remove the actuator springs (Part #: M009).



**Step 14:** Remove the push rod (Part #: P008) by sliding it out.



**Step 15:** Remove the plunger rod (Part #: P009) by lifting it up slightly and out. Set aside the actuator (Part #: MP001).



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## D128R Troubleshooting - Part 1



**Step 16:** To remove the slide valve from the plunger rod you will need a large paper clip or awl. Push the spring down and hold firmly.



**Step 17:** Now push the metal pin (Part #: M005) out using the paper clip. This allows you to remove the spring from the slide valve.



**Step 18:** To reinstall the slide valve onto the new plunger rod slide the spring over the slide valve. Push to the bottom and grasp firmly.



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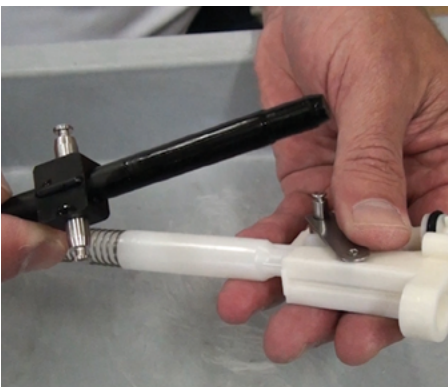
## D128R Troubleshooting - Part 1



**Step 19:** Insert the plunger and reinstall the pin. The center hole is the 1:128 setting. If you need 1:200, install the pin in the top hole, if you need 1:100, install the pin in the bottom hole. Make sure the pin is flush so the spring doesn't get stuck.



**Step 20:** Pick up the actuator and install the new plunger rod by sliding it into the actuator and pulling it down to lock. Make sure the head of the plunger rod is flush.



**Step 21:** Install the push rod with the long portion up making sure to insert it with the groove side inward.



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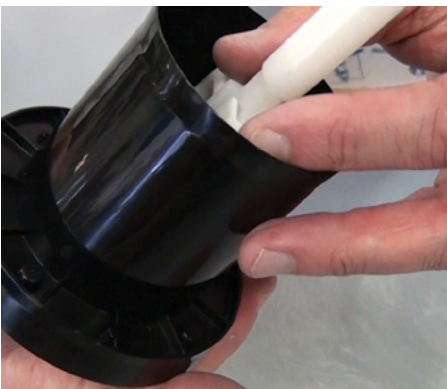
## D128R Troubleshooting - Part 1



**Step 22:** Install the actuator springs.



**Step 23:** Align the push rod and inlet valve inside the piston shell and slide the actuator assembly in completely.



**Step 24:** To hold the assembly in place use your index and middle fingers to apply pressure on the base.





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## D128R Troubleshooting - Part 1



**Step 25:** Now reinstall the four screws and tighten in a star pattern.



**Step 26:** Reinstall the wishbone spring, then reinstall the washers and screws, hand tight.



**Step 27:** Test the piston by pressing on the top and bottom of the push rod. It should click both times.



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## D128R Troubleshooting - Part 2

This D128R Troubleshooting will cover: Water going down into the stock tank.



**Step 1:** Inspect the bottom seal (Part #: J003), slide valve (Part #: P010), and spring (Part #: M003).

If worn, damaged, deformed, or broken, replace the parts.



**Step 2:** Push the spring down and hold firmly.

**NOTE:** To replace the slide valve and spring you will need a large paper clip or awl.



**Step 3:** Using the paper clip, push the metal pin (Part #: M005) out.



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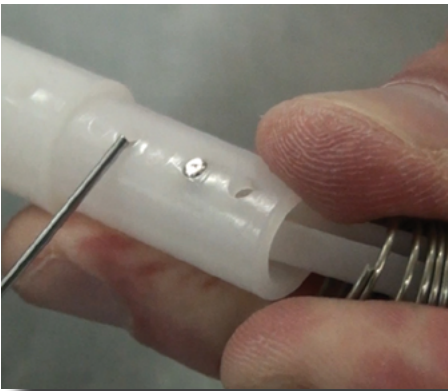
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## D128R Troubleshooting - Part 2



**Step 4:** Install the new slide valve and spring onto the plunger rod. To do this slide the new spring over the top of the slide valve and hold firmly.



**Step 5:** Push the slide valve into the plunger rod and reinstall the pin. The center hole is the 1:128 setting. If you need 1:200, install the pin into the top hole, if you need 1:100, install the pin into the bottom hole. Make sure the pin is flush so the spring doesn't get stuck.



**Step 6:** To reassemble, place the top seal with the raised center portion facing upward inside the body.



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## D128R Troubleshooting - Part 2



**Step 7:** Thread the black stem into the body, hand tight.



**Step 8:** Insert the bottom seal, raised portion facing up, into the black cap and thread onto the stem, hand tight.



**Step 9:** Reattach the gray hose nut.



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## D128R Troubleshooting - Part 2



**Step 10:** Pick up the blue body and insert the piston assembly into the body and slide it down as far as it will go.



**Step 11:** Replace the black lid and hand tighten.



**Step 12:** One last thing. Take a look at the top of the suction tube. If it flares out, cut off an inch or so and reinstall. Or, if the suction tube is cracked, has holes, is rigid, or looks really old, replace.



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## D128R Troubleshooting - Part 3

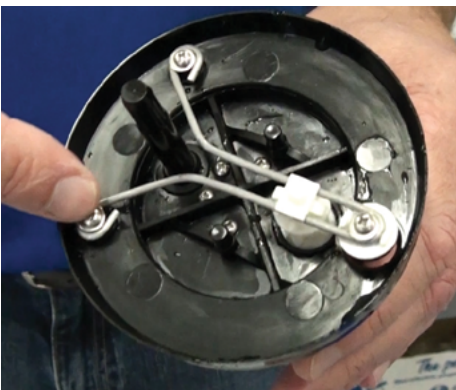
**This D128R Troubleshooting will cover: Medicator not clicking.**



**Step 1:** Remove the lid. You may want to use a strap wrench (Part #: TOOL01).



**Step 2:** Grab the metal wishbone and pull the piston straight out. Set the blue body aside.



**Step 3:** Inspect the wishbone (Part #: MP014) on the top. If you see anything missing, replace.



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## D128R Troubleshooting - Part 3



**Step 4:** Inspect the actuator springs (Part #: M009) on the bottom. If you see anything missing, replace.



**Step 5:** In order to check the piston shell, remove the piston and check the upper and lower flanges on the piston shell. If they are worn or have scratches the piston shell needs to be replaced.





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## D128R Troubleshooting - Part 3



**Step 7:** Insert the piston back into the blue body.



**Step 8:** Hand tighten the lid.

**Note:** To watch the video go to Dosatron's video page [www.dosatronusa.com/videos.aspx](http://www.dosatronusa.com/videos.aspx) or YouTube Channel [www.youtube.com/user/DosatronIntl](http://www.youtube.com/user/DosatronIntl)