



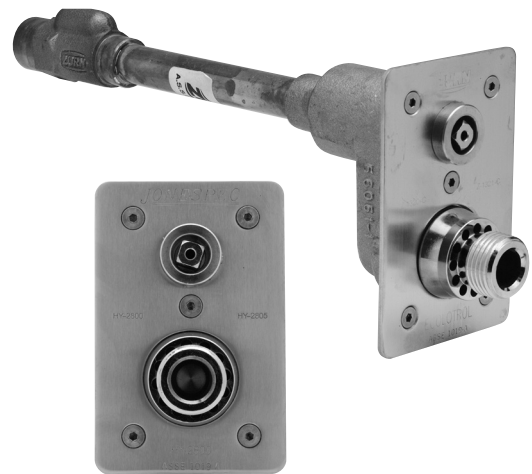
Z1321-C Trouble-shooting Guide

| PROBLEM | CAUSE | SOLUTION |
|---|---|---|
| Hydrant will not operate when turned on | Water supply is shut off | Turn on water supply |
| Cannot turn the hydrant on with key | Hydrant hasn't been used for a long time — "O" ring has adhered to operating screw and head | Follow steps 1-2, 5 and 9-10 of the Service Guide |
| Water running continuously from orifice in operating screw. NOTE: When first turning hydrant on, water may spit for a few seconds until ball seats on "O" ring | Debris between ball and "O" ring (in operating screw) | Follow steps 1-2, 6 and 9-10 of the Service Guide |
| | Ball "O" ring not seated properly (in operating screw) | Follow step 1-2, 6 and 9-10 of the Service Guide |
| Water sprays from holes around nozzle when hydrant is on | Equa-Balance® seal is damaged | Follow steps 1-3 and 9-10 of the Service Guide |
| Hydrant will not self-drain when it is shut off (hose and nozzle are attached) | Screw nozzle is closed | Open screw nozzle so hose will drain some, relieving pressure |
| | Gun nozzle is closed | Squeeze gun nozzle trigger so hose will drain some, relieving pressure |
| Water does not shut completely off when hydrant is turned off | Debris between seat and washer | Follow steps 1-2, 4 and 8-10 of the Service Guide. Clean by turning water supply on and flush hydrant |
| | Washer is worn out | Follow steps 1-2, 4 and 7-10 of the Service Guide |
| | Wire draw in seat | Replace seat |
| Hydrant exhibits low flow | Water supply to hydrant is restricted | Check water supply to ensure that all upstream valves are fully open |

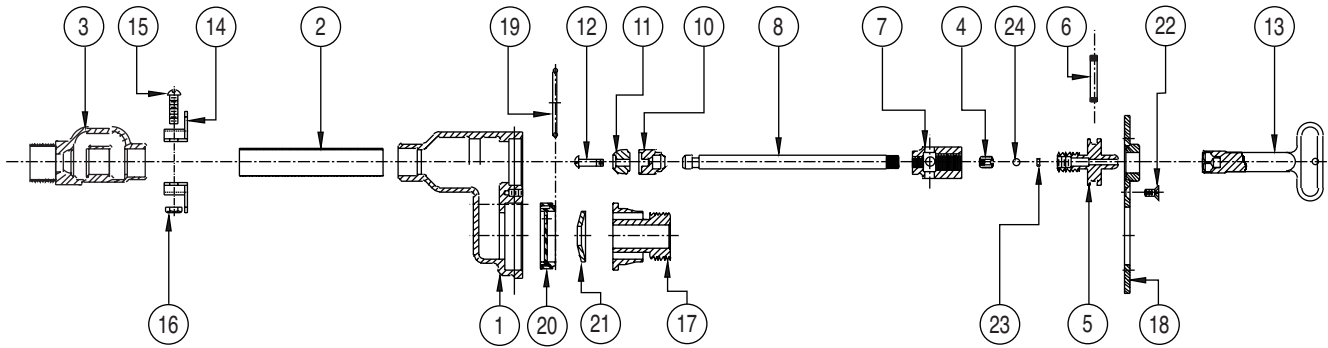
Z1321-C Ecolotrol Wall Hydrant

**Exposed • Automatic Draining
Non-Freeze • Anti-Siphon**

Maintenance and Service Instructions



The Zurn Ecolotrol Hydrant has been engineered to provide reliable performance year after year. However, if servicing is required, it is recommended that you consult the trouble-shooting guide at the left. The trouble-shooting guide was developed to reduce maintenance time by providing the user with appropriate service instructions.



Step 1: Shutting Off the Water Supply to the Hydrant

Locate the supply shut-off valve and rotate until water supply is off.

Step 2: Removing the Faceplate and Adjacent Components

Using 1/8 Allen wrench, remove the five faceplate screws (22) from head (1) by turning counter clockwise. Remove the faceplate (18), and nozzle (17).

If the Equa-Balance® seal was not the reason for service - skip to step 4.

Step 3: Replacing the Equa-Balance® Seal

Remove the current Equa-Balance® seal (21). Check seal for damage (punctures, rips, etc.). Replace damaged seal with a new seal (21) observing proper orientation (EQUA-BALANCE® SEAL SHOULD CUP INWARD IN ITS REPLACED STATE.)

Step 4: Removing the Internal Operating Assembly

The internal operating assembly (4-8, 10-12, and 23-24) can be removed by gripping the square end of the operating screw (5) with a pair of pliers and pulling straight out.

If the operating screw "O" ring was not the reason for service - skip to step 6.

Step 5: Replacing the Operating Screw "O" Ring

Remove the operating screw (5) from operating coupling (7) by turning clockwise and slip the old "O" ring (6) off, and replace with new "O" ring (6). Reinstall operating screw (5) into operating coupling (7) by turning counter clockwise. (NOTE: Lubricate the operating screw (5) threads and the "O" Ring (6) with Lubriplate FGL-2 if needed).

If the operating screw assembly was not the reason for service - skip to step 7.

Step 6: Checking Operating Screw Assembly

Remove the operating screw (5) from the operating coupling (7) by turning clockwise, and using 5/32 Allen wrench, remove set screw (4) by turning counter clockwise, remove stainless steel ball (24) and check orientation of "O" ring (23). If not seated properly, reseal, replace the ball (24) and replace set screw (4) using Allen wrench and turning clockwise until flush with operating screw (5) or until tight and flush with operating screw (5). (NOTE: Lubricate and reinstall as in step 5.)

If the hydrant shutoff washer was not the reason for service - skip to step 8.

Step 7: Replacing the Hydrant Shutoff Washer

Remove #10 - 24 NC x 5/8 screw (12) using a flat screwdriver and turning screw (12) counter clockwise, remove washer (11) and replace with new washer (11) and new screw (12) turning screw clockwise until tight.

Step 8: Replacing the Internal Operating Assembly

There is a flat or a V-notched boss inside of the hydrant head (1) that keeps the operating coupling (7) from rotating when hydrant is turned on and off. With operating screw (5) turned counter clockwise into operating coupling (7) until it stops, and making sure that a flat side or corner of operating coupling (7) lines up with appropriate boss, reinsert the internal operating assembly into the hydrant.

Step 9: Replacing the Faceplate

Insert nozzle (17) into place and fasten the faceplate (18) to head (1) using the 1/8 Allen wrench and the five faceplate screws (22). Rotate the screws clockwise until screws are snugged tight. (By hand only!)

Step 10: Turning On the Water Supply

Locate the water supply shut-off valve and rotate until water supply is on.



ZURN INDUSTRIES, LLC Specification Drainage Operation

1801 Pittsburgh Avenue, Erie, PA 16502, 855.663.9876

In Canada: ZURN INDUSTRIES LIMITED 7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, 877.892.5216

Form No. HYD701-04_1321-C, 7/18

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