Style 9112
Field Service Kit for
1602, 4102

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DESCRIPTION</th>
<th>PART NO.</th>
<th>QTY.</th>
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<tr>
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<td>6</td>
<td>SPRING</td>
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<tr>
<td>7</td>
<td>SEAT NOZZLE</td>
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<tr>
<td>15</td>
<td>O-RING 2-125</td>
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<tr>
<td>16</td>
<td>O-RING 2-225</td>
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<td>17</td>
<td>O-RING 2-012</td>
<td>757282</td>
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<tr>
<td>18</td>
<td>ROLL PIN</td>
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<td>23</td>
<td>SHIM</td>
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<tr>
<td>25</td>
<td>TURBINE TEETH</td>
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<td>27</td>
<td>RETAINING RING</td>
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<tr>
<td>52</td>
<td>GASKET</td>
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</table>

Parts included in this kit are all that are normally required to repair leaks in the shutoff area. If additional nozzle components are required, contact Akron Brass for the appropriate service bulletin or return the nozzle to our factory. Akron Brass Co., 343 Venture Blvd., Wooster Ohio 44691.

* TURBINE TEETH ARE NOT TO BE SPLIT.
**FIELD SERVICE KIT INSTRUCTIONS**

### DISASSEMBLY

1. Remove the swivel gasket 52.
2. Remove the set screw (A) at the swivel end of the shut-off body (B). It will require a 1/8″ Allen wrench for a 1/4 - 20 screw.
3. For Styles 1602 and 4102, insert a tool 1/2″ square, (for 1″ swivel adapter), into the grooves in the swivel adapter (C) and remove (counterclockwise).
4. Remove the O-Ring (16) from the inlet adapter (C).
5. Remove the seat and spring (7 and 6) from the inlet adapter (C).
6. Turn the handle (E) into the closed position and remove the ball (3).
7. Mark the end of the trunnions (F) and handle so they can be reassembled in exactly the same position. (Use chalk, grease pencil, etc.).
8. Take the rivet supplied in the service parts kit and drive out the roll pins (18) securing the handle to the trunnions.
9. Push the trunnions into the shut-off body until they are free. Remove the handle and trunnions.
10. Remove the O-Rings and shims (17 and 23) from the trunnions.
11. Remove the front seat and O-Ring (7 and 15). The new seats must be installed with an O-Ring.
12. Remove the two screws (H) on the turbine retaining ring with a 1/8″ or 7/64″ Allen wrench.
13. Remove the turbine retaining ring (27).
14. Remove the turbine teeth (25).

### ASSEMBLY

**NOTE:** All O-Rings must be lubricated with O-Ring grease before assembly.

1. Install the new O-Rings (15) on the new seats (7).
2. Insert one new seat with O-Ring into the shut-off body (B).
3. Install the new O-Rings (17) and shims (23) on the trunnions (F).
4. Place the handle (E) over the trunnions holes with the “closed” lettering facing the inlet.
5. Install the trunnions from inside the shut-off body, using the marks (Disassembly Step 7) to position properly.
6. Install the new roll pins (18) to secure the handle to the trunnions.
7. Turn the handle into the closed position and insert the new ball (3).
8. Install the other new seat with spring (6) into the recess of the inlet adapter (C).
9. Install the new O-Ring (16) in the shut-off body recess.
10. With the handle in the closed position, thread the inlet adapter into the shut-off body. (Continue tightening until resistance is felt when opening and closing the shut-off.)
11. Install the new swivel gasket (52).
12. Install the new turbine teeth (25).
13. Line up screw holes with the holes in the nozzle body and place the turbine retaining ring (27) back into position.
14. Install and tighten the screws (H) which secure the retaining ring.
15. Test the nozzle with water to determine if the shut-off functions properly. If a small leak is present, tighten the swivel adapter slightly to eliminate the leak.
16. Once the shut-off functions properly, observe the swivel adapter through the set screw hole in the shut-off body. If a full thread is visible, drill a slight recess for the set screw (using a 1/16″ drill bit). Install and tighten the set screw (A).