No. 38 Water Tower Owner's Manual
Congratulations on your purchase of the Lionel No. 38 Water Tower. The water tower is made of detail-molded plastic and die-cast construction and features a can motor and water pump for years of reliable operation. Your water tower can be placed on any Lionel O or O-27 gauge three-rail layout and is designed to operate at 12 - 18 volts alternating current.

Table of contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation and Preparation of your Water Tower</td>
<td>3</td>
</tr>
<tr>
<td>Operation of your Water Tower</td>
<td>4</td>
</tr>
<tr>
<td>Wiring your Water Tower</td>
<td>5</td>
</tr>
<tr>
<td>Operating your Water Tower in Command Control</td>
<td>6</td>
</tr>
<tr>
<td>Maintenance of your Water Tower</td>
<td>7</td>
</tr>
<tr>
<td>Limited Warranty/Lionel Service</td>
<td>8</td>
</tr>
</tbody>
</table>
Installation and Preparation of your Water Tower

Your water tower can be placed anywhere on your layout. It is most effective, however, where it will enhance the action of your steam locomotive. To install your water tower, simply clear an area approximately 6" x 6" on your layout. Make sure that this area is level and flat. Once this area is cleared, simply place your water tower onto your layout. There is no need to secure your water tower to your layout, since the die-cast base will prevent it from moving. Your water tower is now installed.

Before you can begin operating your water tower, there are a few things that you will need to do. Your water tower has a transparent plastic tank through which the apparent emptying and refilling with water can be observed. You will notice that your water tower does not come filled with water. To fill your water tower with water, take approximately 7 fluid Oz. of distilled water and place it into a container. We recommend that you use distilled water to prevent excess materials from building up in your pump or tubing. You will notice that in the packaging of your water tower are two bottles of Lionel Water Colorant (610-4086-100). Add water colorant to your water and stir until you have reached your desired blue tint. Once you have reached the color you desire, you can add water to your water tower.

**HINT** If you would like to use a different color for your water than blue, you can use standard food coloring that can be purchased at any supermarket.

To add water to your water tower, take the 2” piece of tubing (included in your packaging) and attach it to the plug located on the top of your water tower. Once this is done, attach the funnel (also included in your packaging) to the other end of the tubing. You can now pour the blue water into the funnel to begin filling the tank. Do not fill beyond the No. 1 graduation on the scale at the side of the tank or the water will overflow. Once you have filled your tank, you can remove the tubing and funnel. Your water tower is now installed and ready for operation.
Operation of your Water Tower

Operation of your water tower is simple. After your water tower has been installed and wired, simply move the slide switch to the “on” position and the spout will drop to the horizontal position in order to “fill” the water tank in the tender of your locomotive. At the same time, a concealed pump will transfer the water from the outer tank to a second tank located under the tank roof. When the outer tank appears empty, move your slide switch to the “off” position. The spout will rise back to the up position and the tank will “refill” itself. Allow the tank a short time to refill itself before starting the pumping operation again. It is recommended to have water in the tank before attempting to operate it.

NOTE Empty the tank of water before storing away. This can be done by inverting the entire structure over a convenient receptacle and allow the water to come out through the plug located on the roof of the tower.
Your water tower will operate best from 12 - 18 vac. It can be powered using track power or a separate accessory power supply. It is possible to operate your water tower any number of ways. Your water tower will operate using an SC-2 (command control) or using the included slide switch. Your water tower will not operate using an SC-1 due to the amperage limitations of the SC-1.

To wire your water tower using the included slide switch, connect one green insulated wire from one thumbscrew post to the “U” terminal of track power supply (if using track power) or a separate accessory power supply. Please see the diagram below. This is done by unscrewing the nut off of the thumbscrew post, placing the wire through the hole in the post, and tightening the nut back onto the post to secure the wire in place. Connect the second wire from the other thumbscrew post to one end of your slide switch. Finally, connect the last wire from the other side of your slide switch to the “A” terminal of track power supply (if using track power) or a separate accessory power supply. You are now ready to begin “filling” the water tank of your locomotive’s tender. To operate your water tower in a Command Control environment, please see the section labeled **Operating your Water Tower in Command Control**.
Operating your Water Tower in Command Control

Your water tower can be used in a Command Control environment with the use of a SC-2. Due to the limitations of the SC-1, you will not be able to operate this accessory with a SC-1. To connect your water tower to a SC-2, please see the diagram shown on page 21 of your SC-2 Switch and Accessory Guide. For more information regarding the use of the SC-2, please refer to your SC-2 Switch and Accessory Guide (672-2980-250).
Because your water tower uses water as part of its functionality, there are a few things that you will need to keep in mind. Firstly when using water to fill your water tower, always use distilled water. Using distilled water will help to prevent minerals from forming deposits inside of the tubing or pump.

When storing your water tower, we recommend that you remove all of the water from the tank. This will prevent anything from growing or living inside of your tubing or pump. After you remove all of the water, we recommend that you clean the tank thoroughly with warm, soapy water. You can use any standard dishwashing liquid. Do not add the soap directly into the tank of your water tower. Mix the soap with the water before you add it into the tank. Then simply cycle your water tower a few times to clean out the tubing and pump.

You may want to also clean out your tank when you notice that some of the water you initially added is gone. The water colorant has some ingredients like sugar, and when the water begins to evaporate, the sugar will begin to re-crystalize. Using the soap solution to rinse out the tubing and pump will clean all of this out.
Limited Warranty/Lionel Service

This Lionel product, including all mechanical and electrical components, moving parts, motors and structural components, except for light bulbs, is warranted to the original consumer-purchaser, for one year against original defects in materials or workmanship when purchased through an authorized Lionel dealer.

This warranty does NOT cover normal wear and tear, light bulbs, defects appearing in the course of commercial use, or damage resulting from abuse or misuse of the product by the purchaser. Transfer of this product by the original consumer-purchaser to another person voids this warranty. Modification of this product voids this warranty.

Any warranted product which is defective in original materials or workmanship and is delivered by the original consumer-purchaser to Lionel L.L.C. or an authorized Lionel L.L.C. Service Station, together with proof of original purchase will, at the option of Lionel L.L.C., be repaired or replaced, without charge for parts or labor. In the event the defective product cannot be repaired, and a replacement is not available, a refund of the original purchase price will be granted. Any products on which warranty service is sought must be sent freight or postage prepaid, as transportation and shipping charges are not covered by the warranty.

In no event shall Lionel L.L.C. be liable for incidental or consequential damages.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you.

This limited warranty gives you specific legal rights, and you may have other rights which vary from state to state.

Instructions for Obtaining Service

If service for this Lionel L.L.C. product is required, bring the item, along with your dated sales receipt and completed warranty information to the nearest Authorized Lionel Service Station. Your nearest Lionel Service Station can be found by calling 1-800-4-Lionel, or by accessing our Website at www.lionel.com.

If you prefer to send your product back to Lionel L.L.C. for factory repair, you must first call 810-949-4100 or FAX 810-949-5429, or write to Customer Service, P.O. Box 748, New Baltimore, MI 48047-0748, stating what the item is, when it was purchased and what seems to be the problem. You will be sent a return authorization letter and label to ensure your merchandise will be properly handled upon receipt.

Once you have received your return authorization and label, make sure that the item is packed to prevent damage during shipping and handling. We suggest that you use the product’s original packaging. This shipment must be prepaid and we recommend that it be insured.

Please make sure you have followed all of the above instructions carefully before returning any merchandise for service.

Warranty Information

Please complete the information below and keep it, along with your dated sales receipt. You must present this and your dated sales receipt when requesting warranty service.

Name ____________________________
Address ____________________________
Place of Purchase ____________________
Date of Purchase ______________________
Product Number ______________________
Product Description ____________________