Congratulations

Congratulations on your purchase of the Lionel Railroad Tugboat! This highly detailed accessory features interior lighting, realistic steam whistle and harbor sounds, and an operating smoke unit. With a removable base, the tugboat is perfect for use on your layout or for shelf display. This accessory can be powered through a transformer, a wall pack or four AA batteries.

Caution! Your Tugboat is to be displayed on your layout, tabletop, or shelf. Do not attempt to float it in water.

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The name FasTrack® is used with permission from Pitsco, Inc.
Your Tugboat’s mast is designed to fit through the hole in the upper deck and into the slot in the lower deck. Before you begin to install the mast, slide the bottom of the mast through the knots tied in the two strings. As illustrated in Figure 1, carefully stand up the mast, then slide it through the hole in the back of the upper deck until the mast rests in the hole in the lower deck. Using tweezers or a pair of needle-nose pliers, gently slip the knots over the rings. Be sure to position each “knot” above each ring on the mast, then gently pull on the lines to tighten the knot.

Next, press the antenna into the roof of the pilothouse. Refer to Figure 1.

Finally, you are ready to install the smoke stack. Match the tabs on the bottom of the smoke stack with the notches in the deck, then lower the stack into the opening. Refer to Figure 7 on page 8. Note that each tab fits into only one of the notches. Rotate the stack clockwise to lock it in place.

Figure 1. Mast positioning
Installing the lifeboat

Slide the two wire davits through the holes in the top deck and into the holes in the lower deck. Lower the lifeboat into the cradle, inserting the lifeboat posts into the holes below. Refer to Figure 2.

**Note!** Be sure that the lifeboat post with the tab is towards the front of the tugboat.

Removing the base

Your tugboat has been secured to a durable molded base. You may choose to leave the boat on the simulated water wake, or you may remove the base. Simply remove the two base screws as illustrated in Figure 3 and lift off the Tugboat.
The Railroad Tugboat was designed to operate at 15-18 volts (AC). Because this accessory is equipped with sensitive electronics, do not exceed the 18-volt maximum. If the accessory is powered at less than 15 volts, you may find that the sound is distorted. There are three ways to supply power to this accessory. First, you may connect the accessory to a separate power supply, a FasTrack Accessory Power Wire (available separately, 6-12033), or to a Lionel Lockon (available separately, 6-62900). Simply attach one wire to each of the AC POWER terminals and connect them to the power supply, FasTrack accessory wire, or Lionel Lockon. Refer to Figure 4 for the location of these terminals.

Alternately, you may choose to purchase a standard wall pack power supply from your local electronics supply store. The wall pack should be capable of supplying 12-18 volts, 1A (minimum) and have a 2.5mm barrel jack end. Plug in the jack at the location illustrated in Figure 4.

**Note!** Do not operate the Tugboat’s smoke generator without smoke fluid. Refer to page 8.

**Caution!** Do not exceed 18 volts. Damage to sensitive electronics may occur.

Figure 4. AC POWER connections
To power your tugboat with batteries, remove the cover button and screw from the deck of the boat as shown in Figure 5. Lift away the hatch to locate the battery holder. Install the four batteries in the direction shown on the bottom of the holder and replace the hatch, securing it with the deck screw.

**Note!** The smoke unit and the sounds will not operate when the tugboat is powered by batteries.

Figure 5. Battery installation
Connecting the controller

The controller is used to operate the sound unit and to blow the whistle. The four controller wires are connected to four thumbscrew terminals on the underside of the Tugboat. Attach the controller as illustrated in Figure 6.

**Note!** To make these connections, loosen the thumbscrew terminals to expose the holes in the terminal posts. Insert the bare end of the wire into the post, then tighten the thumbscrew back down to secure the wire. Be sure that the exposed wire is in contact with the terminal post. Repeat the process with the remaining wires and the other terminal posts.

![Controller connections diagram](image)

Figure 6. Controller connections

Operating the Tugboat sounds

Press and hold the WHISTLE button on the controller (see Figure 6), and the Tugboat’s start-up sounds will play. After you release the button, you will hear the sounds of the Tugboat’s engine running and random marker buoy, foghorn, whistle and seagull sounds. Press the WHISTLE button, at any time, and the whistle sounds will play. To turn off the sounds, press and hold the WHISTLE button for a few seconds.
Before you operate the Tugboat, add four to eight drops of fluid to the smoke generator. To add smoke fluid, carefully rotate the stack counter-clockwise about an eighth of a turn, then lift it away. Add the fluid into the hole in the circuit board as illustrated in Figure 7.

**Note!** Be sure that the smoke fluid is not spilled onto the surface of the circuit board.

Figure 7. Adding smoke fluid
Slide the switch (disguised as the Tugboat’s bitt) at the back of the Tugboat to the left for transformer or track power. See Figure 8 for the location of the switch. Slide the switch to the right for battery power. Only the lights inside the Tugboat will illuminate when under battery power.

The harbor sounds are operational when the Tugboat is powered by the AC power supply or wall pack. Press WHISTLE on the controller to blow the whistle. AC Power users, slide the SMOKE UNIT switch to ON to operate the smoke unit. The smoke feature will not operate on battery power.

**Note!** The controller is illustrated in Figure 6 on page 7.
Replacing the lamps

Two lamps illuminate the interior of your Tugboat. During the course of normal operations, you may find that they require replacement.

The first lamp is located near the battery holder. Remove the corner button and the screw from the deck of the boat as shown in Figure 9. Lift away the hatch to locate the lamp to the rear of the battery holder. Gently unscrew the lamp and replace it with Lionel part no. 610-4172-300, available from your authorized Lionel Service Center or from Lionel Service. Reposition the hatch, securing it with the deck screw.

The second lamp is located directly below the pilothouse. To access this lamp, locate the latch beneath the pilothouse stairs and swing it away from the structure as illustrated in Figure 10 on page 11. Lift the pilothouse away from the Tugboat, making sure that the two front tabs clear the Tugboat deck. Unscrew the lamp and replace it with Lionel part no. 610-4172-300, then replace the pilothouse.

Note! Your Tugboat’s navigation lights and spotlight are illuminated by LEDs (light emitting diodes). The LEDs are expected to last for the life of the accessory.
Replacing the lamps (continued)

Figure 10. Pilot house lamp replacement

Swing the latch out of the way
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 merchant.

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 Center, 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 Center. Your nearest Lionel Service Center 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 repair in Michigan, you must first call 586-949-4100 or FAX 586-949-5429, 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. You may choose to have your product repaired by one of our Authorized Lionel Service Centers after its warranty has expired. A reasonable service fee will be charged.

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 ______________________________

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