73-8658-250 3/08



Trainsounds M

Congratulations!

Congratulations on your purchase of the Lionel 4-4-0 General-type steam locomotive and tender! This locomotive features a bright headlight, a puffing smoke unit, and Lionel TrainSounds sound system.

Features of the locomotive

- Transformer controlled forward, neutral, and reverse operation
- TrainSounds sound system
- · Operating headlight
- Powerful, maintenance-free motor
- Two traction tires
- Puffing smoke unit
- Minimum Curve: 0-27

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Running your locomotive with a Lionel transformer



Place your locomotive on Lionel or Lionel-compatible track.

With track power OFF, connect the drawbar between locomotive and tender. Refer to Figure 1.

Caution! If the smoke unit switch is in the ON position, add smoke fluid to your locomotive's stack to prevent damage to the smoke unit. Refer to page 11 for additional information.

Caution! Slide the smoke unit switch to the OFF position if the locomotive remains in neutral. The smoke unit will become damaged if the locomotive is left sitting on the track with power on. Refer to page 5 for the location of this switch.

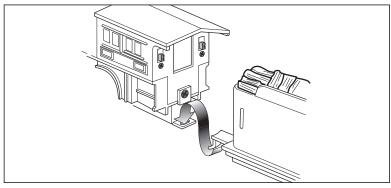


Figure 1. Drawbar connection



Power up your locomotive with your transformer.

- Your locomotive is designed to operate on 7-15 volts alternating current. Virtually all Lionel and Lionel-compatible alternating-current transformers are suitable.
- Do not power your locomotive with direct current (DC) transformers.



Move 'em out!

- **Get your locomotive moving.** To sequence the reversing unit, press the direction control button on your transformer, or turn the throttle OFF and back ON again until you are moving in the desired direction.
- **Adjust track voltage** until your locomotive moves at your desired speed.

Locking your locomotive into a single operational state

The electronic reverse unit inside your Lionel locomotive acts like the transmission in a car. When you apply power to the track, the locomotive moves in the direction specified by the reverse unit—or it sits in neutral, awaiting another power interruption. Power interruptions are the signal that tells the reverse unit to sequence to the next operational state.

To interrupt power and sequence the locomotive's reverse unit, briefly bring the throttle lever all the way back to the OFF position. The reverse unit alternates between three states: forward, neutral, and reverse.

Also, the locomotive can be "locked" into a certain mode of operation by throwing the reverse unit switch located on the back of the cab. See Figure 2. To lock your locomotive into a specific operational state, sequence the locomotive into the desired state and reduce track power without completely powering down the locomotive, then throw the switch to the LOCK position. Power interruption will then have no affect on the direction of the locomotive. If you would like to resume forward-neutral-reverse operation, simply throw the reverse unit switch back to the RUN position.

Additionally, this reverse unit has a "power-up reset" feature. If the locomotive sits without power for an extended period of time, the reverse unit will automatically reset and start in the forward direction when the transformer is turned on or "powered up," regardless of the reverse unit switch position. If the switch is in the LOCK position, the locomotive will start in the forward direction and be "locked" there.

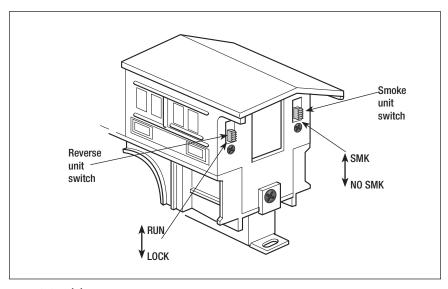


Figure 2. Switch locations

Coupling

When coupling your cars, at least one of the mating couplers must be open as shown at the left in Figure 3. Press down on the lock release to open the coupler, then push the cars toward each other until they lock together.

Note! Keep in mind that it's easier to couple cars on a straight stretch of track.

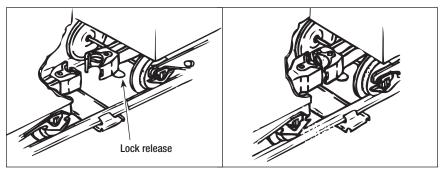


Figure 3. Coupler operation

Operating your TrainSounds Tender

Your TrainSounds Tender was designed to operate at approximately 6 to 18 volts (AC). When you power up the tender on the track, you will hear the sounds of the idling steam locomotive. The chuffing intensity will increase proportionally with the locomotive's speed.

Note! Always operate the TrainSounds Tender with a lighted locomotive, an illuminated car, or lighted track bumpers. This power draw will prevent the whistle from sounding erratically.

Whistle

Press the **WHISTLE** button on your transformer to sound the whistle. The sound will play for as long as you hold the button. If your transformer is not equipped with this button, we recommend that you install a 610-5906-001 Sound Activation Button (available separately) as discussed on page 10.

Note! Transformers produced by other manufacturers may not be capable of activating this feature. We recommend using a Lionel 610-5906-001 Sound Activation Button (available separately) if the **WHISTLE** button on your transformer does not work.

Rell

Press the **BELL** button on your transformer to activate the bell sound. Press **BELL** again to discontinue the sound. If your transformer is not equipped with this button, we recommend that you install a 610-5906-001 Sound Activation Button (available separately) as discussed on page 10.

Note! Transformers produced by other manufacturers may not be capable of activating this feature. We recommend using a Lionel 610-5906-001 Sound Activation Button (available separately) if the **BELL** button on your transformer does not work.

Brake squeal

To activate the sound of squealing brakes, operate your locomotive at a rapid rate of speed for at least ten seconds, and then throttle down to a lower speed. The brake sounds will discontinue automatically after a few moments.

Note! If you are unable to activate the brake sounds, your locomotive's speed may be too low. Increase the speed of the locomotive, operate for at least ten seconds, and then reduce the throttle by half.

Crew dialogue

When the car is not in motion, you may activate random crew dialogue using the WHISTLE button on your controller.

Note! The car must be powered up on the track and not in motion (in neutral) for the dialogue to play. Do not turn off track power.

Operating your TrainSounds Tender (continued)

Press the WHISTLE button	Dialogue
Stop/Power-up to about 35 seconds	"Stand by" dialogue
After 35 seconds	"Clear for departure" dialogue
After 60 seconds	Random, automatic crew dialogue

Note! If you activate multiple "stand by" dialogues during the first 35 seconds, the length of time before the "clear for departure" dialogue becomes 35 seconds, plus the length of the dialogue.

Note! Transformers produced by other manufacturers may not be capable of activating this feature. We recommend using a Lionel 610-5906-001 Sound Activation Button (available separately) if the WHISTLE button on your transformer does not work.

Adjusting the volume

U se the volume control knob on the underside of the TrainSounds Tender to adjust the volume. Refer to Figure 4.

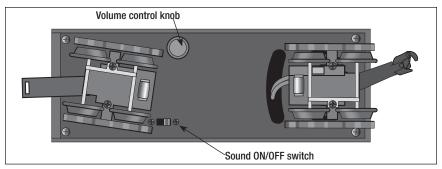


Figure 4. Volume control knob and switch location

Silencing the chuffing sounds

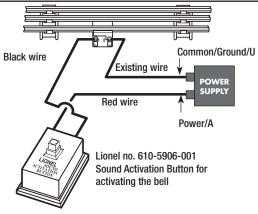
To silence the chuffing sounds, slide the switch on the underside of the tender to the OFF position. The user-activated whistle and bell are not silenced.

Installing a Lionel Sound Activation Button for conventional operation

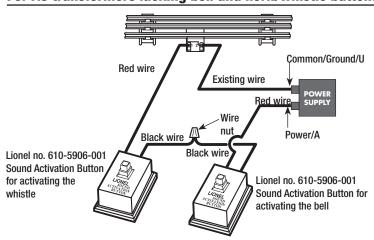
f your transformer lacks **WHISTLE** and **BELL** buttons, you will need to install Lionel no. 610-5906-001 Sound Activation Buttons (available separately) to activate the locomotive's whistle and bell sounds.

Connect the buttons as shown below. Be sure that all track power passes through the Sound Activation Button(s). Do not bypass the buttons.

For AC transformers lacking a bell button



For AC transformers lacking bell and horn/whistle buttons



Adding smoke fluid to your locomotive's smoke generator

Your locomotive is equipped with a smoke generator that produces safe, clean white smoke during operation if the smoke unit switch is in the ON position. Refer to Figure 2 on page 5 for the location of the switch.

The smoke generator requires the periodic addition of Lionel smoke fluid in order to function. A small bottle of smoke fluid is included with this set. Press down and unscrew the cap. Pierce the end of the nozzle with a pin, then add about four drops of fluid directly into the locomotive's stack. Smoke production commences momentarily. It will start faster if you run your locomotive at higher speeds. When smoke production decreases, add more fluid (about four drops). An idle locomotive will not smoke.

Smoke production is greater at higher voltages and when the locomotive is pulling a heavy load or a long consist.

Note! If you prefer to operate the locomotive without smoke or you do not want to add smoke fluid, slide the smoke unit switch to the OFF position.

Caution! Slide the smoke unit switch to the OFF position if the locomotive remains in neutral. The smoke unit will become damaged if the locomotive is left sitting on the track with power on.

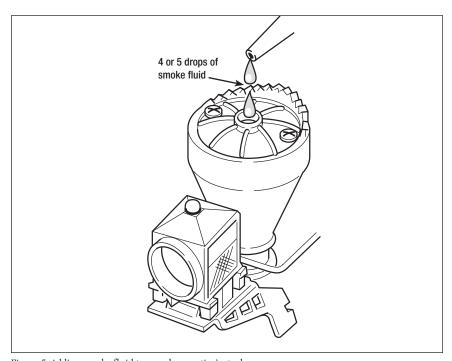


Figure 5. Adding smoke fluid to your locomotive's stack

Lubricating your locomotive

elp your Lionel locomotive lead a long and productive life on your railroad by maintaining it properly.

We recommend that you purchase a Lionel Lubrication and Maintenance Kit (6-62927), available from your Lionel dealer. Two basic rules to keep in mind: *never* over-lubricate (a small amount will do), and avoid getting grease or oil on the locomotive's wheels *or* your track. You'll know your locomotive requires lubrication when visual inspection reveals dryness on the parts indicated in Figure 6. Remove accumulated dirt and dust before lubricating and always lubricate any locomotive emerging from prolonged storage.

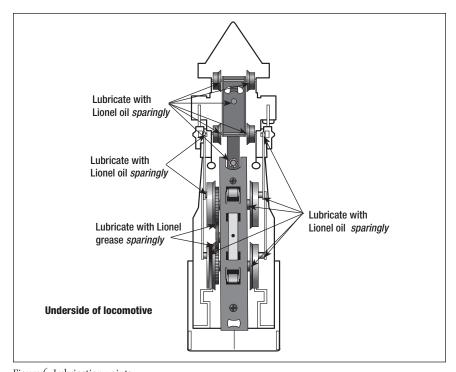


Figure 6. Lubrication points

Replacing your locomotive's lamp

Your locomotive is illuminated by one lamp, Lionel part nol 600-0191-300. During the course of normal operations, the lamp in your locomotive may require replacement. Replacement lamps are available at your authorized Lionel Service Center or from Lionel Service in Chesterfield, Michigan.

- 1. Disengage the clips on the latern housing from the slots in the bracket. Lift away the lantern housing.
- Slide the lamp back towards the locomotive's stack, then lift the lamp straight up from the bracket.
- 3. Install the replacement lamp, sliding it towards the front of the locomotive.
- 4. Press the lantern housing down into position on the bracket.

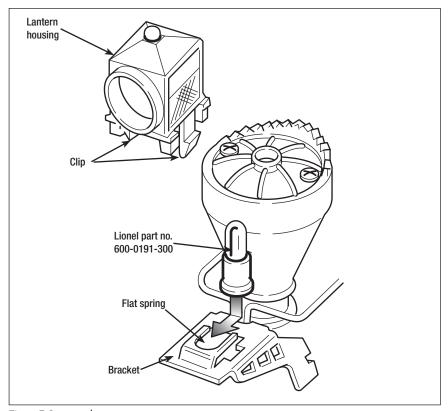


Figure 7. Lamp replacement

Replacing the traction tires

Your locomotive is equipped with one traction tire (Lionel part no. 620-8613-206). During the course of normal operations, the traction tire may become worn out. To replace the traction tire, use a 3/16" nut driver to remove the drive rod nut. Slip off the worn tire and position the replacement tire around the wheel. Carefully fit the tire into the groove. If you are uncomfortable with this operation, you may choose to have the traction tire replaced by your authorized Lionel Service Center.

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

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

