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***LCCA***  
***Reading Mining Set***  
***Owner's Manual***

# ***Congratulations!***

**C**ongratulations on your purchase of the LCCA Reading Mining Set! This set features a powerful Vulcan switcher locomotive, an operating 2-bay hopper, and a 2-bay hopper with end of train device (ETD).

Use this Owner's Manual to learn how to operate and maintain your train set for years of reliable operation.

## **Train Set Inventory**

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- **Vulcan switcher locomotive**
- **Operating 2-bay hopper**
- **2-bay hopper with battery operated ETD**
- **Coal bag**
- **Owner's Manual**

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# ***Running your train***

## **Running your train set**

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**1**

***With track power off, place your train set on the track.***

Refer to the following section for information on coupling the cars.

**2**

***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.

**Note!**

Do not power your locomotive with direct-current (DC) transformers. The locomotive was designed for use with alternating-current (AC) transformers only.

**3**

***Move ‘em out!***

**Get your locomotive moving.** Your locomotive goes through a repeating pattern of operations: forward, neutral, reverse, neutral, and so on. To sequence the reverse unit, press the DIRECTION button on your transformer, or briefly bring the throttle all the way back to the OFF position and then forward. Each press of the DIRECTION button or interruption in track power causes the locomotive to advance to the next operational state.

**Adjust track voltage** until your locomotive moves at your desired speed.

# Running your train

## Coupling

When coupling your cars, at least one of the mating couplers must be open as shown at the left in Figure 1. 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.

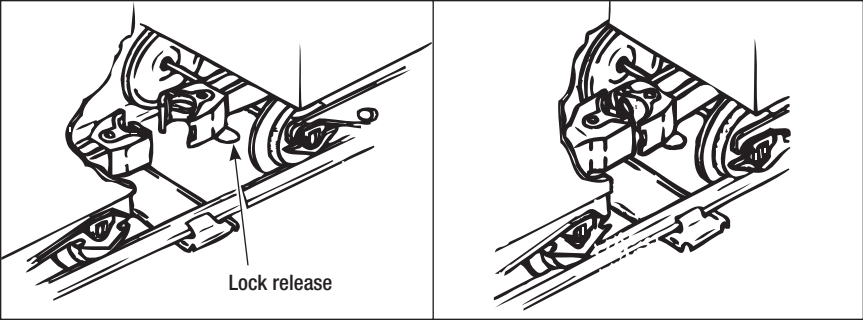


Figure 1. Coupler operation

# ***Running your train***

## **Unloading the operating hopper**

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**F**ollow these steps to unload Lionel coal from the car. The pieces of coal will spill out from the chute, and so we recommend using this car with the 456R Operating Coal Ramp (available separately).

1. Load the car with Lionel coal. A bag of coal is included with this set.
2. Position the plunger over the “uncoupling” magnet on the 456R Operating Coal Ramp or similar accessory. The plunger is identified in Figure 2.
3. Press UNLOAD on the accessory or track section’s controller to pull down the plunger, allowing the coal to flow through the two open chutes. When you release the button, the chutes will close automatically.

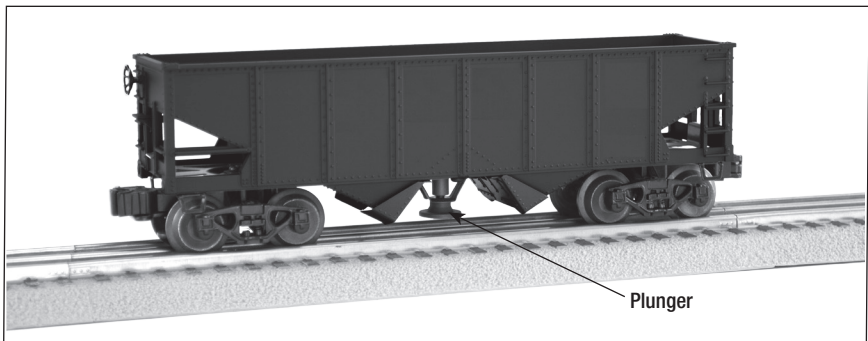


Figure 2. Operating Coal Car plunger location

## ***Running your train***

### **Installing a 9V battery in the hopper with ETD**

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**Y**our 2-bay hopper features a lighted end of train device (ETD). The ETD is powered by a 9V alkaline battery (not included). To install the battery, simply lift the molded coal load out of the car and connect the battery to the battery harness. See Figure 3 below. Set the battery on the bottom of the car, and replace the coal load, taking care to avoid pinching any wires.

The LED that illuminates the ETD is not user serviceable. If service is required, please contact your Factory Trained Authorized Lionel Service Station. See page 12 for details.

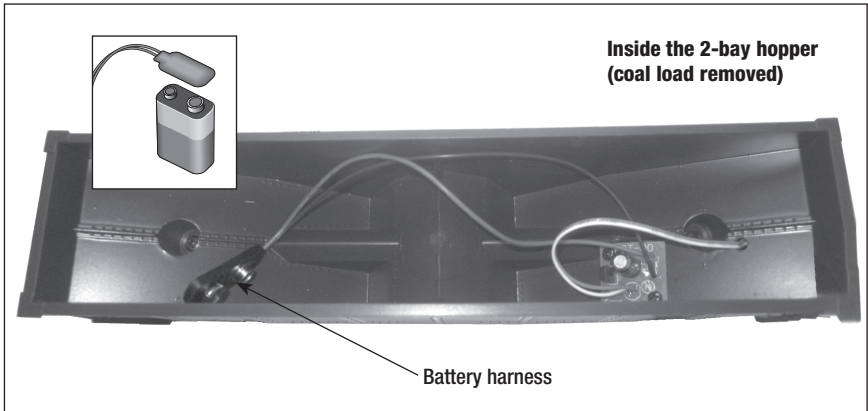


Figure 3. Battery installation

# Running your train

## Reverse unit procedure

**T**he 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 through the forward-neutral-reverse-neutral-forward sequence, press the direction control button, or briefly bring the throttle lever all the way back to the Off position, for one to four seconds.

The locomotive can be “locked” into a certain mode of operation by throwing the reverse unit switch located on the rear of the cab (see Figure 4). When the switch is thrown to the OFF position, the locomotive will be locked in the next mode of operation in the sequence. The DIRECTION button will then have no effect 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 ON position.

Additionally, this reverse unit has a “power-up reset” feature. If the locomotive sits without power for a short period of time, the reverse unit will automatically reset and start in the forward direction when the transformer is turned on or “powered up,” if the reverse unit switch position is in the ON position.

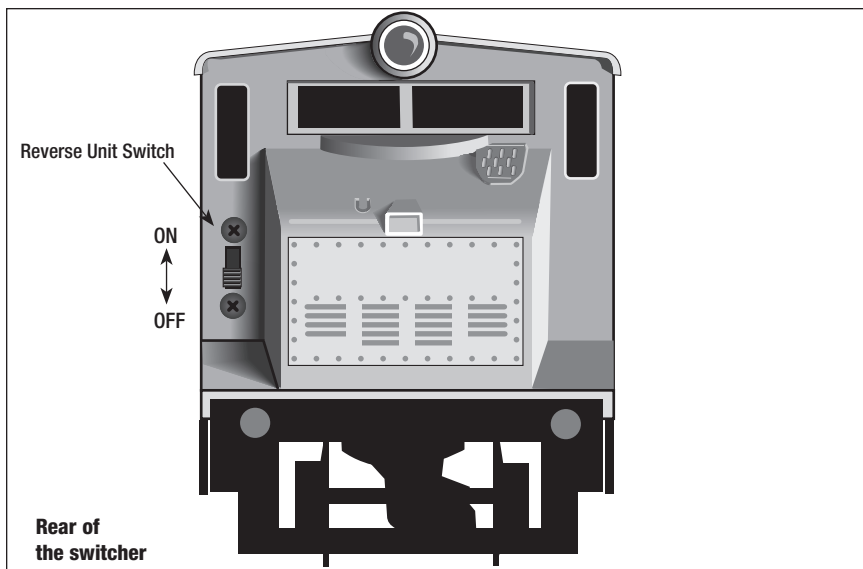


Figure 4. Reverse unit switch location



# Maintaining and servicing your set

## Lubricating your locomotive

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**H**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, contact rollers, *or* your track.

You'll know your locomotive requires lubrication when visual inspection reveals dryness on the parts indicated in Figure 5. Remove accumulated dirt and dust before lubricating, and always lubricate any locomotive emerging from prolonged storage.

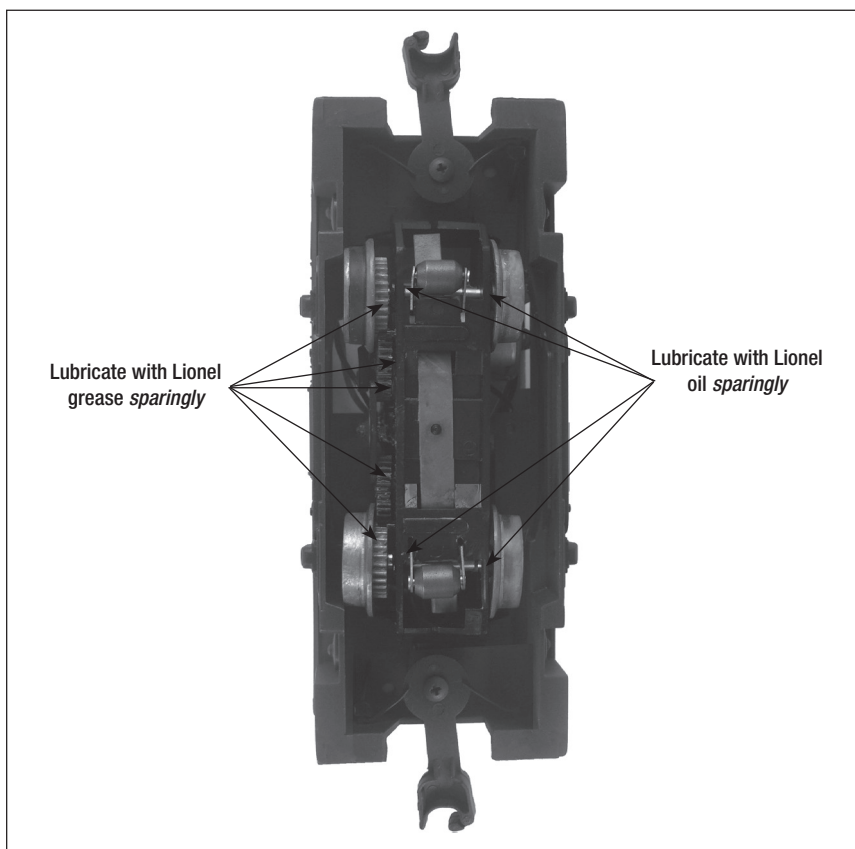


Figure 5. Screw locations and lubrication points

## ***Maintaining and servicing your set***

### **Replacing your locomotive's traction tire**

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**Y**our locomotive is equipped with one traction tire. This rubber tire increases the tractive effort of your locomotive, allowing it to pull more cars at once. During the course of normal operations, the traction tire may become worn out. Should you ever need additional traction tires (Lionel part no. 6000222108) for servicing your locomotive, you can locate your nearest Factory Trained Authorized Service Station at [www.lionel.com](http://www.lionel.com) in the Customer Services section.

### **Servicing your locomotive's lamp**

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**Y**our locomotive is illuminated by two LEDs, which are expected to last for the life of the unit. If service becomes necessary, contact your Factory Trained Authorized Lionel Service Center.



# Lionel Limited Warranty Policy & Service

This Lionel product, including all mechanical and electrical components, moving parts, motors and structural components, with the exception of **LIGHT BULBS, LED's & TRACTION TIRES** are warranted to the original owner-purchaser for a period of **one year from the original date of purchase** against original defects in materials or workmanship when purchased through a **Lionel Authorized Retailer\***.

This warranty does **NOT** cover the following:

- Normal wear and tear
- Light bulbs or LED's
- Defects appearing in the course of commercial use
- Damage resulting from abuse/misuse of the product

Transfer of this product by the original owner-purchaser to another person voids this warranty in its entirety. Modification of this product in any way; visually mechanically or electronically, voids the warranty in its entirety.

Any warranted product which is defective in original materials or workmanship and is delivered by the **original owner-purchaser** (this warranty is non-transferrable) to Lionel LLC or any Lionel Authorized Service Station **MUST** be accompanied by the original receipt for purchase (or copy) from an **Authorized Lionel Retailer\***, will at the discretion of Lionel LLC, be repaired or replaced, without charge for parts or labor. In the event the defective product cannot be repaired, and a suitable replacement is not available, Lionel will offer to replace the product with a comparable model (**determined by Lionel LLC**), if available. In the event a comparable model is not available the customer will be refunded the original purchase price (requires proof of purchase from the **Authorized Lionel Retailer\*** it was originally purchased). Any products on which warranty service is sought must be sent freight or postage prepaid (Lionel will refuse any package when postage is due). **Transportation and shipping charges are not covered as part of this warranty.**

**NOTE: Products that require service that do not have a receipt from an LIONEL AUTHORIZED RETAILER\* will be required to pay for all parts required to repair the product (labor will not incur a charge) providing the product is not older than 3 years from date of manufacture and is within 1 year from date of purchase. A copy of the original sales receipt is required.**

**In no event shall Lionel LLC be held 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 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 LLC product is required; bring the item, along with your DATED sales receipt and completed warranty information (at the bottom of this page) to the nearest Lionel Authorized Service Station. Your nearest Lionel Service Station can be found by calling 1-800-4-LIONEL or by accessing the website at [www.lionel.com](http://www.lionel.com).

If you prefer to send your Lionel product directly to Lionel, for repair you must FIRST call 586-949-4100 extension 2 or FAX Lionel at 330-286-4146 or write to Lionel Customer Service, 6655 Seville Drive, Canfield, OH 44406. Please have the 6-digit Lionel product number, the date of original purchase, the dealer where the item was purchased and what seems to be the problem. You will receive a return authorization (RA) number to ensure your merchandise will be properly tracked and handled upon receipt at Lionel LLC.

Once you have your Return Authorization (RA) number, make sure the item is packed in its original Styrofoam inner container which is placed inside the original outer display box (this will help prevent damage during shipping and handling). This shipment **MUST** be prepaid and we recommend that it be insured with the carrier of your choice.

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 Lionel LLC's Authorized Service Stations after its warranty has expired. A reasonable service fee should be expected once the product warranty has expired.

## Warranty Information

Please complete the information below and keep it, along with your **DATED ORIGINAL SALES RECEIPT**. You **MUST** present this form **AND** your **DATED SALES RECEIPT** when requesting warranty service.

\*A complete listing of Lionel Authorized retailers can be found by calling 1-800-4-LIONEL or by visiting our website at [www.lionel.com](http://www.lionel.com).

Products that are more than 3 years old, from date of manufacture, are not applicable for warranty coverage, even if they have never been sold prior to this date. (Under no circumstance shall any components or labor be provided free of charge.)

Name \_\_\_\_\_

Address \_\_\_\_\_

Place of Purchase \_\_\_\_\_

Date of Purchase \_\_\_\_\_

Product Number \_\_\_\_\_

Product Description \_\_\_\_\_



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