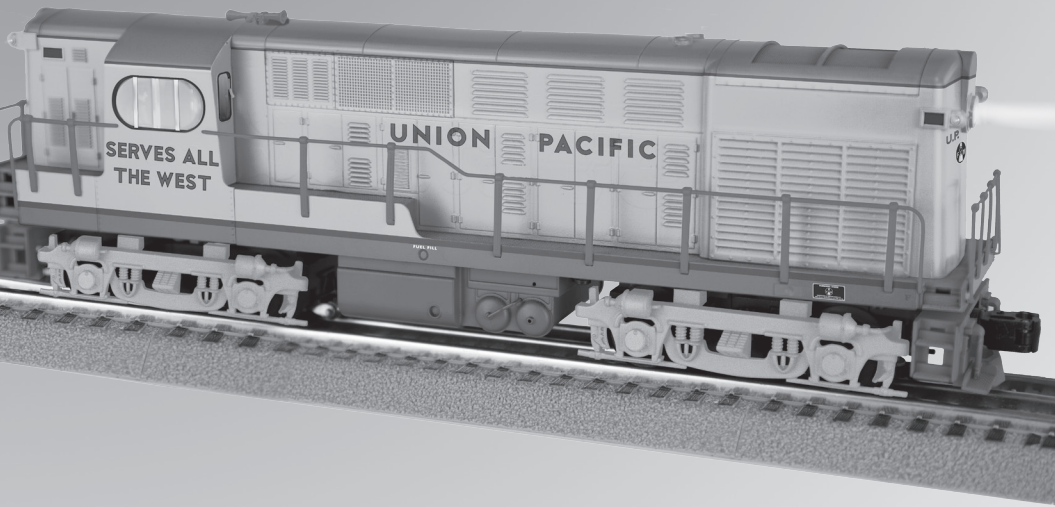


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Rev. 1



Lionel Conventional H16-44 Diesel Locomotive Owner's Manual

Congratulations!

Congratulations on your purchase of the conventional Lionel diesel locomotive. This powerful locomotive features transformer-controlled forward-neutral-reverse-neutral operation and numerous scale details, as well as the conventional RailSounds sound system. This locomotive is ready for duty on your layout!

Locomotive features

- **Transformer controlled forward, neutral, and reverse operation**
- **Conventional RailSounds sound system with horn and bell**
- **Die-cast metal trucks**
- **Operating headlight**
- **Operating front and rear couplers**
- **Powerful maintenance-free motors with momentum flywheel**
- **Traction tires**
- **Engineer figure**
- **Minimum curve: 0-31**

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Running your locomotive

Running your locomotive

1

With track power off, place your locomotive on the track.

Refer to page 5 for information on coupling the cars.

2

Power up your locomotive with your transformer.

Your locomotive is designed to operate on 8-18 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, for one to four seconds. When track power is interrupted, the locomotive advances to the next operational state.

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

Running your locomotive

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.

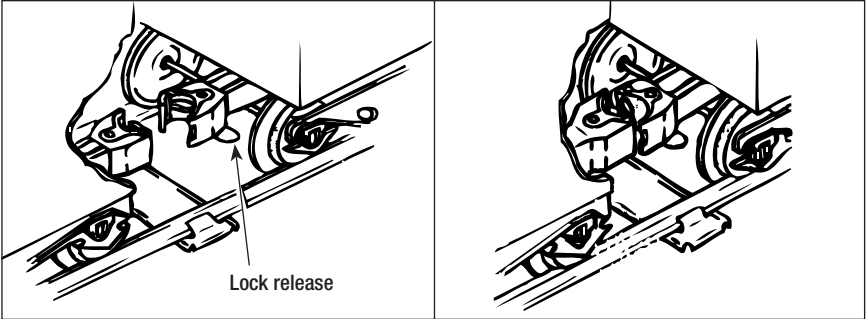


Figure 1. Coupler operation

Running your locomotive

Reverse unit procedure

When the reverse unit switch is in the RUN position, your locomotive sequences through a repeating pattern of operations: forward, neutral, reverse, neutral, and so on.

To “lock” your locomotive into forward operation only, you can deactivate the reverse unit’s sequencing function. Follow the steps below and refer to Figure 2 for the location of the reverse unit switch.

1. Turn off track power, wait three seconds, and then remove the locomotive from the track.
2. Slide the reverse unit switch to the LOCK position. See Figure 2 for the location of this switch. At this point, the locomotive is “locked” into forward direction operation.
3. Place your locomotive back on the track. Power up the track and press the DIRECTION button on your transformer to confirm that the locomotive is locked in forward-only operation.

To restore the forward-neutral-reverse sequence, turn off track power and remove your locomotive from the track. Slide the reverse unit switch back to the RUN position, then place the locomotive back on the track.

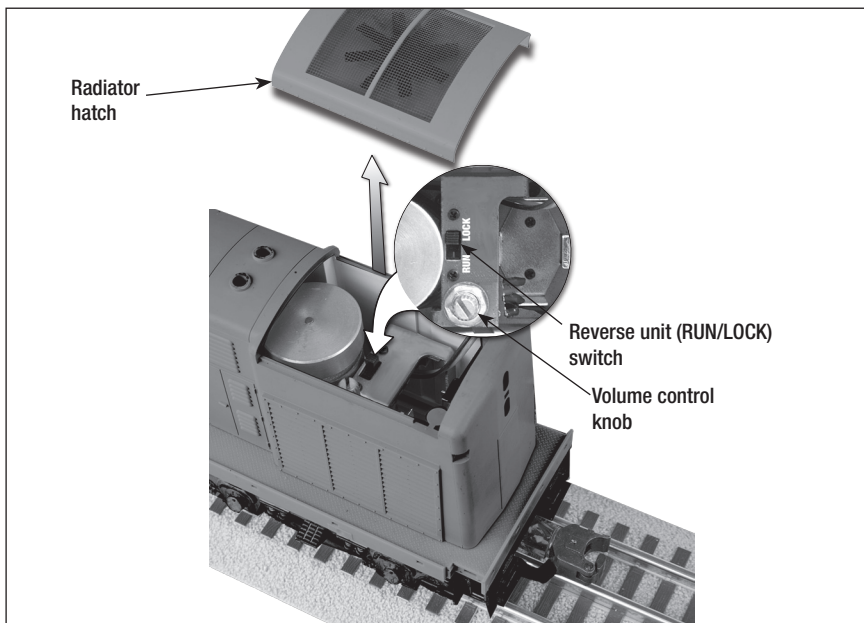


Figure 2. Switch location

Conventional RailSounds operations

Operating the conventional RailSounds sound system

When you power up the locomotive on the track, you will hear the sounds of the locomotive at rest. As the locomotive moves, the RPM sounds automatically increase with the locomotive's speed. Use the volume control knob to adjust the volume. This control is concealed under the rooftop radiator hatch. See Figure 2 on page 6.

Whistle/Horn

Press the **WHISTLE/HORN** button on your transformer to sound the Horn. The sound will play for as long as you hold the button.

Bell

Press the **BELL** button on your transformer to activate the bell sound. Press **BELL** again to discontinue the sound.

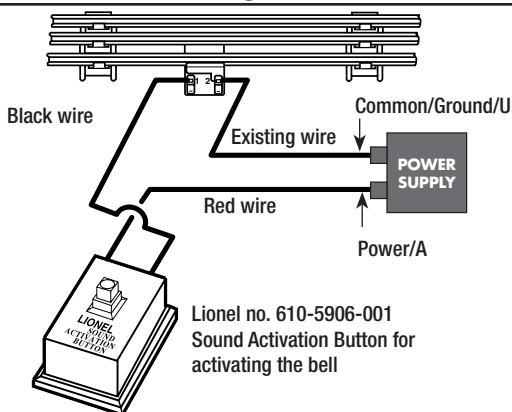
Conventional RailSounds operations

Installing a Lionel Sound Activation Button for conventional operation

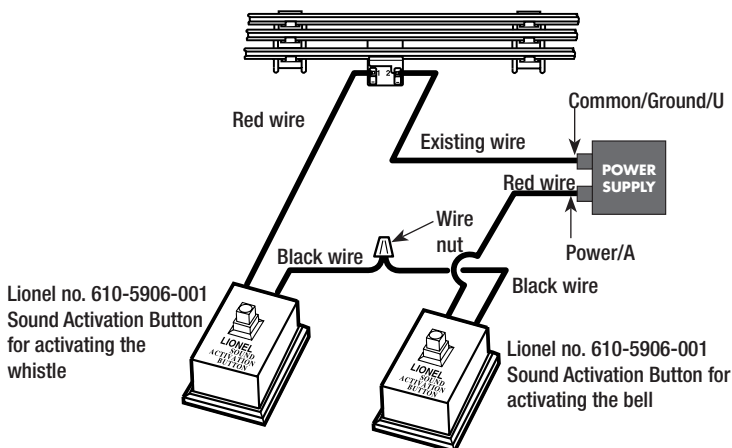
If your transformer lacks **WHISTLE/HORN** and **BELL** buttons, you will need to install Lionel no. 610-5906-001 Sound Activation Buttons (available separately) to activate the locomotive's whistle and bell sounds.

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



Maintaining and servicing your locomotive

Lubricating your locomotive

Help your diesel 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 3. Remove accumulated dirt and dust before lubricating, and always lubricate any locomotive emerging from prolonged storage.

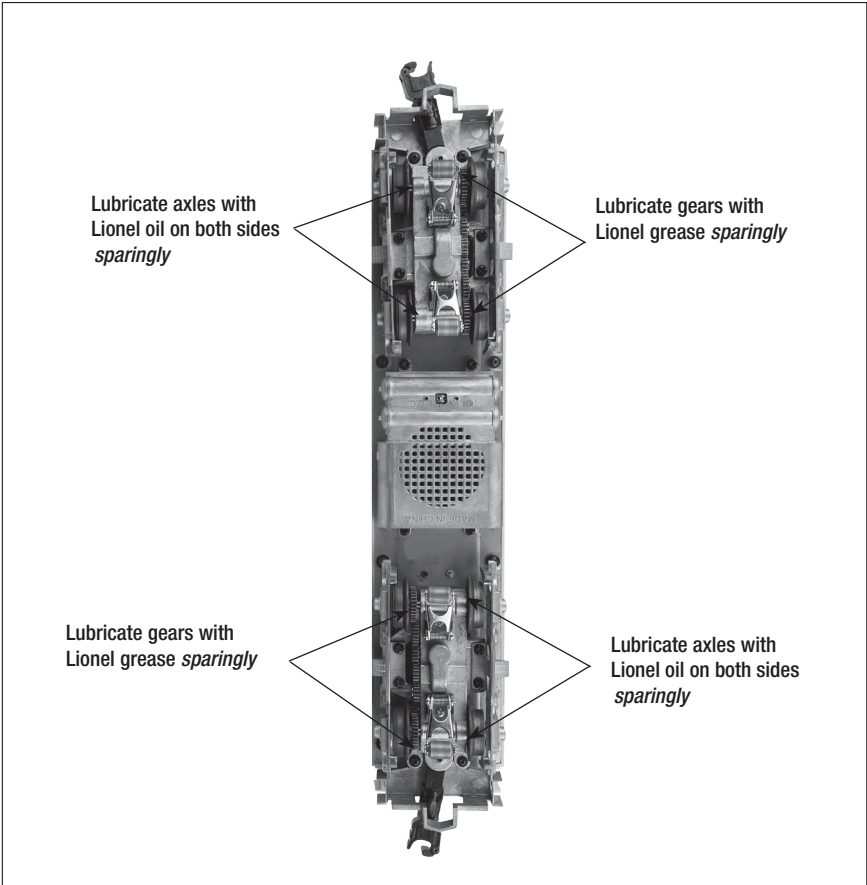


Figure 3. Lubrication points

Maintaining and servicing your locomotive

Servicing your locomotive's LEDs

Your locomotive is illuminated by several LEDs that are expected to last for the life of the locomotive. The LED's are not user serviceable. If service is required, we recommend that you have your locomotive serviced at a Lionel Factory Trained Authorized Service Station.

Replacing the traction tires

Your locomotive is equipped with traction tires (Lionel part no. 6208815206) to increase the tractive effort of your locomotive and allow it to pull more cars at once.

During the course of normal operations, the traction tires may become worn out. To replace the traction tires, remove the side frame screws from the underside of the trucks and lift away the side frame. Remove the worn tire, then slip the replacement around the wheel. Reposition the side frame on the truck and secure it with the two screws.

Notes

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.

If you prefer to send your Lionel product directly to Lionel, for repair you must FIRST call 586-949-4100 extension 9105 or FAX Lionel at 586-949-5429 or write to Customer Service, 26750 Twenty Three Mile Road, Chesterfield, MI 48051-2493. 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.

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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