



MOTORIZED INTERURBAN

K-LINE BY LIONEL

ELECTRONIC REVERSING UNIT:

Your new K-Line by Lionel locomotive features a solid-state, electronic reversing unit utilizing an up-to-date integrated circuit design. It operates as follows: each time the power to the locomotive is interrupted, the engine changes state. This can be done by moving the transformer control to the "OFF" position, or pushing the direction button on your transformer, if the transformer is equipped with a direction button. The sequence of operation is forward-neutral-reverse-neutral-forward.

The engine can also be locked into any mode of operation by moving the reversing unit on-off switch to the "OFF" position. This switch is located on the underside of the locomotive chassis (labeled "OFF ON" in illustration). When this is done, the locomotive will "lock" into the next mode of operation in the sequence. For instance, if the engine is moving forward, then is stopped and the switch is moved to "OFF", the engine will be locked in neutral.

In addition, the K-Line by Lionel reversing unit has a forward-reset feature. Should the locomotive sit without power for a brief time, it will automatically start in the forward direction upon being re-energized, regardless of the setting of the reversing unit ON-OFF switch.

PARALLEL VS. SERIES OPERATION: (AVAILABLE ON SOME ENGINES) This dual motored engine can be operated in either parallel mode or series mode. Locate the switch underneath the engine labeled "Parallel" and "Series". Many model train locomotives feature motors wired in a parallel state. This method, determined by your K-Line By Lionel locomotive with the switch to "Parallel", achieves greater power and speed. If your model railroading operation requires more realistic speeds and slower starts, switch to series operation. Be aware that this reduces the power to the locomotive. Experiment with this switch to determine which better for your operation.

SOUND: This locomotive is equipped with Passenger TrainFX - a complete soundscape of the railroading experience including full operating sounds of the Interurban's electric motor, horn and/or bell plus a rich tapestry of human sounds including station announcements and individual crew and passenger conversation.

To trigger the horn press the HORN button on your transformer or horn controller. The horn blows as long as the button is depressed. Release the button and the horn stops. Use the BELL button on your transformer or bell controller to activate the bell. Press once to start the bell. It will sound until you press the button a second time.

With TrainFX you can activate informational station and train announcements plus passenger and crew conversations. Any time you sound the horn within 15 seconds of bringing your engine to rest – like at a station – you trigger one of several arrival messages. Any time your engine is idling in neutral for 30 seconds up to four minutes - a maintenance-themed message will be issued. At rest longer than 15 seconds and blow the horn and you trigger one of several departure messages. You have control over when there is a message, and what type, but the specific message is randomly selected from a menu of options.

PANTOGRAPHS/TROLLEY POLES: The metal pantographs or trolley poles are operational and will connect your Interurban's motor, lights and sound to a powered catenary system.

REPLACING TRACTION TIRES: Your powered locomotive is equipped with traction tires. These rubber tires increase the tractive effort of your locomotive, allowing it to pull more cars at once. During the course of normal operations, the traction tires may become worn out. Because you must remove the trucks and the side frames to access the wheels, we recommend that you have the traction tires replaced by your authorized Lionel Service Center.

LUBRICATION: Periodically apply gear lubricant to the motor truck drive gears. The hubs should be lubricated occasionally with light machine oil. Remove any excess oil or grease, especially if it has come in contact with the traction surfaces of the wheels.

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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