

# Instructions for Operating LIONEL STEAM-TYPE LOCOMOTIVES WITH SMOKE AND WHISTLE

Most Lionel steam-type locomotives are equipped with a smoke generator which produces odorless, realistic-appearing smoke. Simply drop an SP Smoke Pellet into the smoke stack of the locomotive and turn on the track power. The smoke is produced in a few seconds as soon as the heating element in the generator melts the pellet and is blown out of the stack in puffs timed by the motion of the locomotive.

One pellet contains enough smoke material to last from 10 to 30 minutes depending on the voltage applied to the locomotive. The volume of smoke does not depend on the amount of smoke material in the generator and in fact will increase somewhat as the pellet is consumed. *Do not overload the generator with smoke pellets. Wait until one pellet is consumed before dropping in another one.*

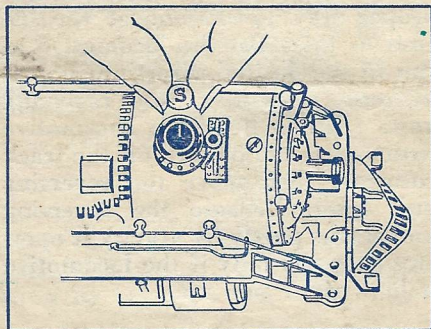


Figure 1—Using Smoke Pellets

SP Smoke Pellets, which are furnished in glass bottles, have been rigorously tested by recognized testing laboratories and are free from any toxic effects even if accidentally swallowed. They are stainless, odorless, and completely harmless to life or property.

## HOW TO CLEAN SMOKE LOCOMOTIVES

Smoke pellets are consumed without leaving any ash. After several hours of operation some white powdery material will accumulate in the smoke stack. This is all smoke material and should be pushed back into the generator with the wooden tamper provided. Do not use any sharp instrument or you may damage the delicate heater element.

If the generator has been clogged up by too much smoke material and fails to produce enough smoke, clean out the smoke stack, raise the track power slightly higher than normal and let the locomotive stand in neutral for a few minutes until the smoke material melts. Then lift up the locomotive slightly and let the wheels turn rapidly for a few moments to blow out the excess smoke material. The whitish deposit which may be formed on the locomotive body after a long period of operation may be cleaned off with a little Lionel lubricant applied with a soft cloth.

## REVERSING THE LOCOMOTIVE

All Lionel locomotives reverse by remote control. The reversing 'E-Unit' in the locomotive works in sequence: Forward, Stop, Reverse, Stop, etc. To stop the locomotive push the 'Direction' control on the transformer once; to change the direction of the locomotive push the 'Direction' control twice.

The reversing unit can be disconnected by moving the small lever projecting from the top of the locomotive boiler. If the reversing unit is disconnected,

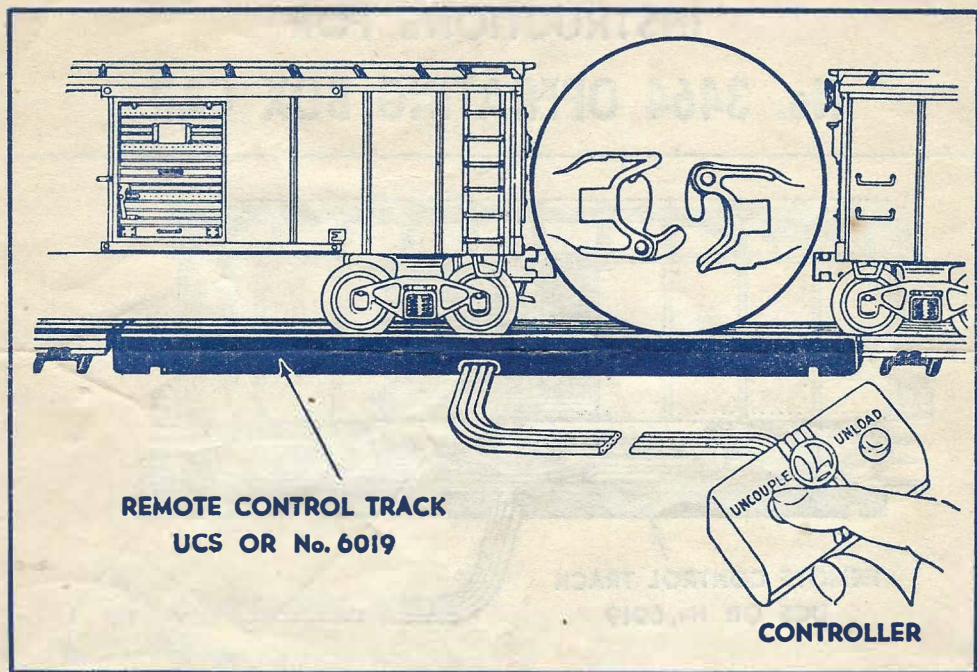


Figure 2—Box Car Positioned for Uncoupling

## SERVICE INFORMATION

This car was thoroughly inspected at the Factory and is in perfect operating condition. Like all Lionel products this car is guaranteed against faulty material and workmanship to the extent that if any such defective car is returned to the Lionel Factory Service Department or any of Lionel Authorized Service Stations within one year of the date of purchase it will be repaired or replaced. If in the future it should ever require servicing, you may either send it to the Factory Service Department, or take it to your nearest Lionel Authorized Service Station. Your dealer can tell you the name and address of the Approved Service Man in your neighborhood.

If you decide to mail the car to us, be sure to pack it carefully to avoid damage in transit. Use the original box if possible and enclose in another strong container. A letter in a stamped envelope stating fully the service desired must be pasted to the outside wrapper, since postal regulations do not permit a letter or any written message to be placed inside the package.

# THE LIONEL CORPORATION

EXECUTIVE OFFICES — 15 EAST 26th STREET, NEW YORK 10, N. Y.

### Service Department

1460 Chestnut Ave.

Hillside 5. N. J.

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Merchandise Mart

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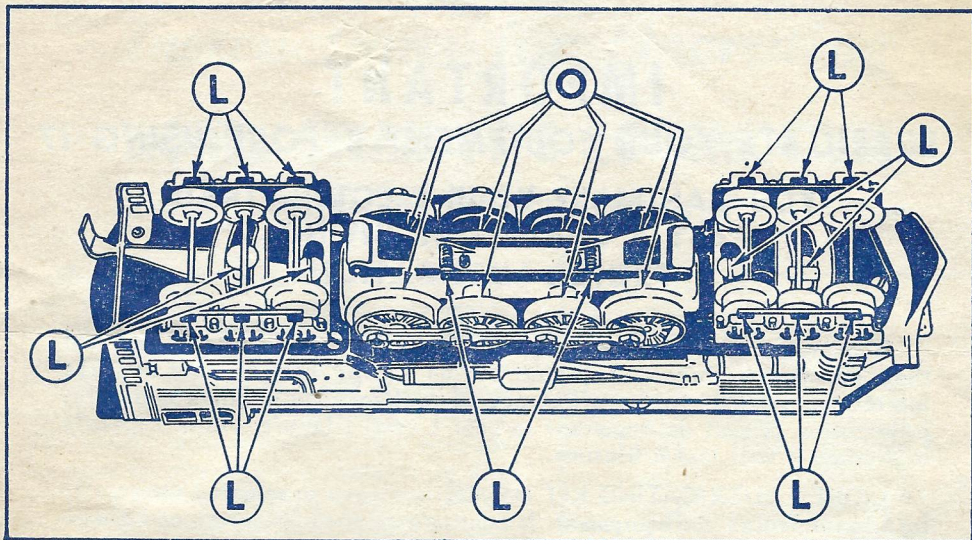


Figure 4—Principal Lubricating Points of the Locomotive

for a long time. Follow the lubricating chart in Figure 4 using light machine oil in places marked 'O' and Lionel lubricant in places marked 'L'. The lubricant reservoir shown in Figure 3 can be reached by taking off the locomotive body, but does not need frequent attention. **DO NOT OVER-LUBRICATE.** A drop or two of oil or a dab of lubricant is quite sufficient. Do not get any oil or lubricant on the motor brushes or the running surfaces of the wheels, and do not lubricate the locomotive contact rollers.

A complete Lubricating and Maintenance Kit No. 927 which contains all the material and equipment necessary to keep your outfit in top notch condition may be obtained for \$1.50 from your dealer, or, by mail, from the Lionel Service Department.

## SERVICE INFORMATION

This locomotive and tender were inspected at the Factory and found to be in perfect operating condition. Like all Lionel products they are guaranteed against faulty material and workmanship to the extent that if any such defective article is returned to the Lionel Service Department, or to any Lionel Approved Service Station, within one year of the date of purchase it will be repaired or replaced. If in the future your locomotive or tender should ever require servicing, you may either send it to the Factory Service Department, or take it to the nearest Lionel Approved Service Station listed in the general Instruction Booklet.

If you decide to mail the articles to us, be sure to pack them carefully to avoid damage in transit. Use the original box and packing, if possible, and enclose in another corrugated box or strong container. A letter in a stamped envelope stating fully the service desired must be pasted to the outside wrapper. Post Office regulations do not permit a letter or any written instructions to be placed inside the package.

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# IMPORTANT

## LUBRICATE YOUR EQUIPMENT BEFORE USING IT

### YOU CAN MAKE YOUR ELECTRIC TRAIN LAST A LIFETIME BY GIVING IT PROPER LUBRICATION

Ever notice how carefully enginemen lubricate the important parts of their locomotives before they start out on a trip? They do that because lubrication is *vital* to the efficiency of real railroad engines and cars. Lubrication is just as important to your Lionel Electric Train. Properly lubricated it will last a lifetime.

LIONEL LUBRICATING KIT No. 927 has been assembled especially for Lionel Trains and equipment. It contains all the lubricating and cleaning materials and a complete set of detailed lubricating charts to help you keep your Lionel Trains in top-notch condition.

**LIONEL LUBRICATING  
AND MAINTENANCE KIT  
No. 927**

**\$1.50**

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Two ounce nozzle-tube, No. 925

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