

INSTRUCTIONS

LIONEL ALCO DIESEL LOCOMOTIVE

WITH

"TIRE - TRACTION"

Lionel Alco Diesel locomotives are modeled on the 1,500 horsepower general-purpose freight and passenger locomotives built by the American Locomotive Company and used by many American railroads.

These locomotives are designed especially to operate on the sharp-curved Lionel "027" track, but will run as well on "0" or Super-"0" track, or on any three-rail track measuring $1\frac{1}{4}$ " between the outside rails. The operating voltage of this locomotive ranges from 9 to 14 volts, depending on the load, and its draw-bar pull is approximately 6-7 ounces.

LIONEL TIRE-TRACTION

Like most modern Lionel locomotives, the power sections of Alco diesels are equipped with Tire-Traction which means that one of the driving wheels is equipped with a rubber tire to grip the track more securely. This enables the locomotive to pull heavier loads and to negotiate steeper grades. Alco diesels are able to pull the trains in the outfit up the grade provided by Lionel No. 110 Trestle Set. With heavier loads, however, the grade may have to be decreased.

COUPLING AND UNCOUPLING

Both sections of the Alco Diesels are equipped with self-centering fixed knuckle couplers which will mate automatically with any operating knuckle coupler. To couple either section of the locomotive to the train simply push or run it against the mating car. This can be done anywhere along a straight stretch of track, provided that the mating coupler is open.

The locomotive is uncoupled from the train by opening the coupler of the car joined to it.

The uncoupling operation is performed while the train is moving so be ready to cut down the track voltage because the locomotive will speed up immediately when its train load is released.

DIRECTION CONTROL

This locomotive is equipped with a reversing "E-Unit" which operates whenever track current is interrupted. To change train direction simply move the transformer control arm to OFF and back ON, or use the transformer direction control if it is so equipped. If you want the train to continue in the same direction continuously, move the E-unit control lever to its "off" position. (see Figure 1)

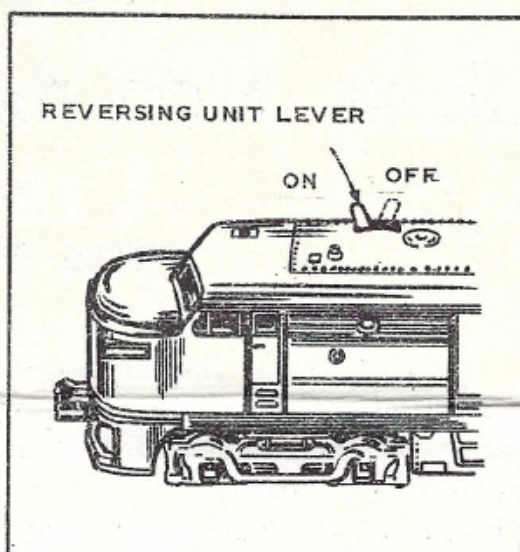


Figure 1 - Location E-Unit Lever

LAMP REPLACEMENT

The headlight in the power unit of the locomotive is illuminated by a miniature bayonet-base lamp. To reach the lamp for replacement remove the screw at the rear of the locomotive body and lift it off the frame. To remove the lamp press it down and turn it slightly to the left. Lionel replacement lamp No. L57 is available from your dealer.

CARING FOR YOUR LOCOMOTIVE

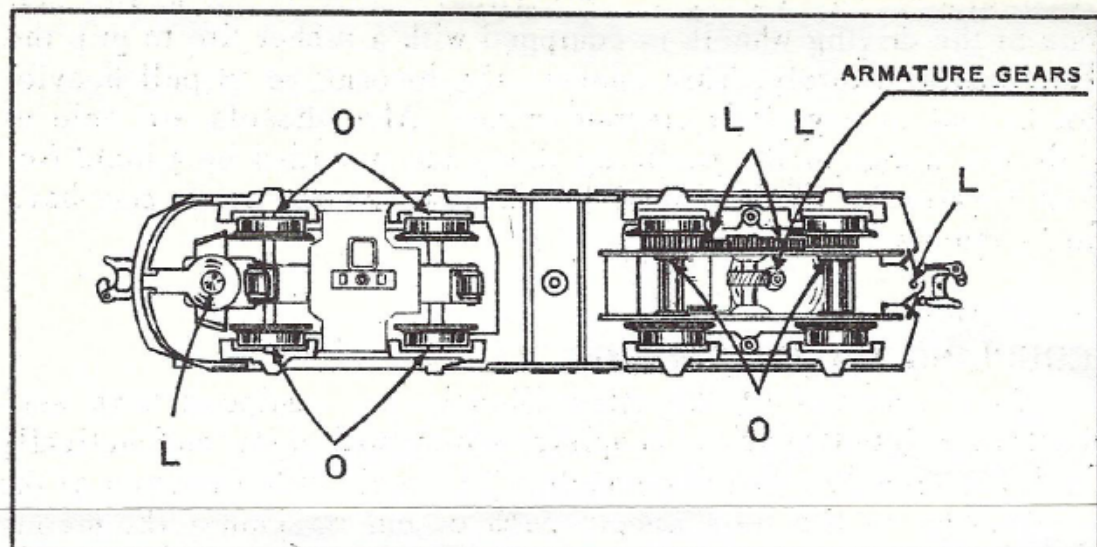


Figure 2 - Lubricating an Alco Locomotive. Use Lubricant at "L", Oil at "O".

The life and performance of the locomotive depend to a considerable degree upon proper care and lubrication of the motor and other moving parts. Since your locomotive might have been stored on the dealer's shelves for some time, it's a good idea to lubricate it before running it for the first time. Follow the lubricating chart in Figure 2. Put a small dab of Lionel Lubricant at all points marked "L" and a drop or two of light machine oil at points "O". Lubricate thoroughly but never to excess.

DIESEL CARE

Be careful not to get any oil or lubricant on the running surfaces of the wheels or on the rails, or your locomotive will lose traction. Also do not lubricate the contact roller, because a sticky roller or roller axle may build up a layer of dirt which will interfere with electrical contact.

The locomotive motor is lubricated by means of an oil wick which should be replenished occasionally with a few drops of oil applied with a wire applicator. The locomotive body must first be removed as described under Lamp Replacement. A complete lubricating and maintenance kit No. 5159, which contains all the materials and equipment to keep your outfit in top notch condition is available from your Lionel dealer or THE LIONEL SERVICE COMPANY.

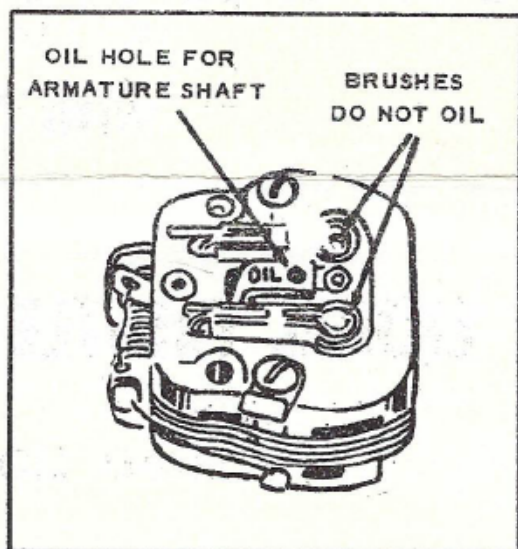


Figure 3 - Lubricating Motor

LIONEL WARRANTY

All Lionel equipment is carefully made and inspected, and warranted against defects in material and/or workmanship. To validate this warranty, the Warranty Registration Card must be mailed within 10 days of purchase.

NOTE: Please make sure you have followed the instructions carefully before returning any merchandise for service.

THE LIONEL TOY CORPORATION
HOFFMAN PLACE, HILLSIDE, N.J.

Make Thrilling Overhead Grades !

with the

LIONEL TRESTLE SET No. 110

FOR ALL LIONEL TRACK



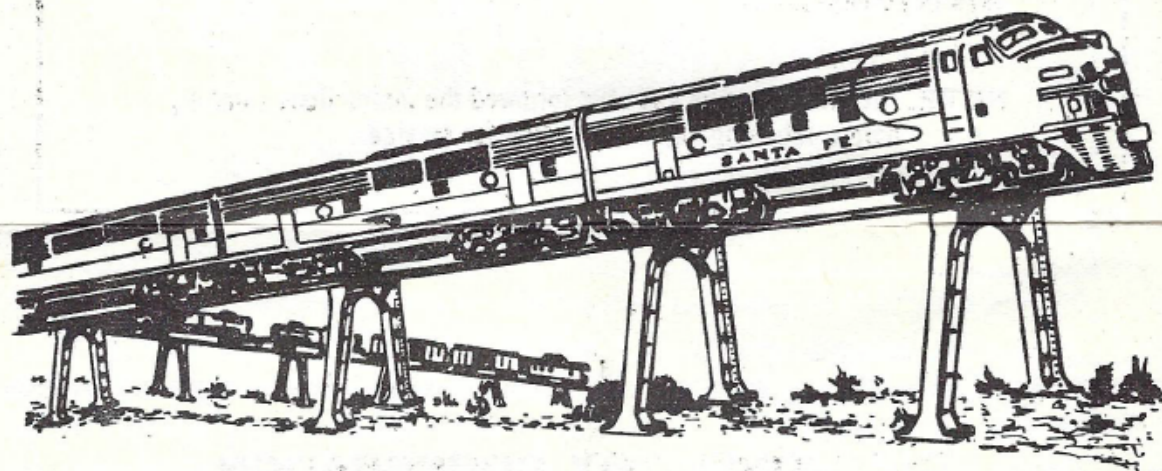
HERE'S WHAT IT INCLUDES:

24 GRADUATED TRESTLE PIERS

44 MOUNTING SCREWS

22 TRACK TIE CHANNELS

INSTRUCTION LEAFLET



THE LIONEL TOY CORPORATION
Hoffman Place, Hillside, N.J.