CAUTION - ELECTRIC TOY

NOT RECOMMENDED FOR CHILDREN UNDER EIGHT YEARS OF AGE. AS WITH ALL ELECTRIC PRODUCTS, PRECAUTIONS SHOULD BE OBSERVED DURING HANDLING AND USE TO REDUCE THE RISK OF ELECTRIC SHOCK.

POWER PACK RATING - INPUT: 120 VAC 60 Hz 24W AC OUTPUT: 16 V 1A

NOTE: Store in a cool, dry place.
This product is proudly offered by Lionel Trains, Inc. and it carries a warranty to support its continued reliable operation. You may choose to have the Lionel Service Department service your item even after its warranty expires. If so, a reasonable service fee will be charged. In either event, please follow the directions below.

If service is required within the warranty period, bring the item to the nearest authorized Lionel Trains Service Station along with the warranty card. If you prefer to send it back to the factory, you must first call (810)-949-4100 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 assure your merchandise will be properly handled upon receipt.

**CAUTION:** Make sure the item is packed so as to prevent damage to the merchandise. The shipment must be prepaid and we recommend that it be insured.

Please make sure you have followed the instructions carefully before returning any merchandise for service. This warranty gives you specific legal rights and you may have others that vary from state to state.

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**Dear Railroader:**

Now that you have entered the magical world of Lionel Trains, there are lots of ways to enjoy your new hobby. Many are included in this set, others you can do on your own. Here are some ideas:

**Join the Lionel Railroader Club.** The first year is free when you send in the enclosed application. As a valued member you’ll receive a Railroader Club membership card and club button, Quarterly newsletters of the Inside Track, and all Lionel catalogs when they are released. Exclusive offers will be made to all club members, in addition to our special, members only railroad club car. Plus, members who visit our Lionel Visitors Center will receive a 10% discount on any purchase made, just by showing your membership card!

**Look through the Accessory Catalog.** This gives great ideas on how to increase your fun by adding accessories to make your railroading adventure even more exciting. These items can be found at your Authorized Value Added Dealer by looking in the yellow pages under hobbies.

No matter what you do, **HAVE FUN!** Let your imagination be your guide and you will enjoy many years with Lionel Trains!
**CARING FOR JAMES**

Do not attempt to disassemble and/or lubricate your locomotive. **All locomotives have been pretested and the necessary moving parts have been sufficiently lubricated for life at the factory and should run correctly.** If you have difficulty with the operation of your locomotive, please return it to an Authorized Lionel Trains Service Station or the Factory Service Department for proper service. See Service section on page 12 for additional information.

It is very important to keep the track and wheels free from dirt and grease. Wipe them with a soft cloth whenever they get dirty. This will help the engine run more efficiently.

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**TROUBLE SHOOTING**

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>PROBABLE CAUSE</th>
<th>CORRECTIVE ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine will not run</td>
<td>BATTERY BAY not connected</td>
<td>Check pack, root cause</td>
</tr>
<tr>
<td></td>
<td>POWER PACK short circuit</td>
<td>Check pack, root cause</td>
</tr>
<tr>
<td>Engine hesitates</td>
<td>SPEED ORGAN not connected</td>
<td>Check organ, root cause</td>
</tr>
<tr>
<td>Engine runs very slowly or overheats</td>
<td>MOTOR not running correctly</td>
<td>Check motor, root cause</td>
</tr>
<tr>
<td>Carb won't couple</td>
<td></td>
<td>Check carb coupling, root cause</td>
</tr>
</tbody>
</table>

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Before you assemble your train set for operation, this instruction book should be read by everyone that will be operating the set. You will learn important information on train set operation and the proper use of your set in order to avoid damage. The answers to questions concerning care and maintenance will be found within this booklet. If you have any remaining questions about your train set or accessories, contact your Authorized Lionel Service Station using the listing included in a separate flyer in your train set box. After you have read this booklet, assembled your train, and plugged in the power pack, you will be ready to enjoy many hours of railroading fun.

Parents should periodically inspect the power pack for potential hazard and have repaired if necessary. See the Lionel Service Station listing for information and address of the nearest Authorized Service Station.

STEP 1: TRACK ASSEMBLY & LAYOUT

Join the track sections together by inserting the pins of each track section into the rail openings of another section. Pins must be carefully inserted and track joints tight for good electrical contact. Plastic track sections snap together to assure correct assembly.

All electrical connections should be clean and tight. The track should fit together firmly. If the rail openings have become enlarged causing the track to fit loosely, pinch the rail together around a track pin with a pair of pliers. If any pins fall out of the track and are missing, replace them immediately. The rails should be kept clean, dry, and free from oil and grease. Clean off tarnish and dirt spots with any commercial brass cleaner to keep your track in top condition. Wipe the track with a clean soft cloth dampened with track cleaner from the LIONEL MAINTENANCE KIT.

The layout shown can be assembled with the twelve track sections supplied with your special layout pack. If others are desired, more track may be purchased from your local Lionel Authorized Value Added Dealer simply look in the yellow pages under hobbies.

NOTE: 12 curved track sections = circle layout
To attach the lockon onto the track first place the lockon under any curved section of the track between the rail ties. Fit the flange of the outside rail into the squared brass contact on the lockon. Next press the lockon upward so the spring contact snaps onto the inner rail. (See Figure A). The lockon should now be attached to the track as shown in Figure C.

The wire coming out of the controller splits into two thinner wires that are stripped on the ends. These stripped wires will be inserted into the lockon. This is done by pushing down the upper half of the clip until the metal loop in the lower part projects through the top. Insert the bare wire end into the loop and release the clip. (See Figure B at right.). Spring tension will hold the wire tight. The order that the wires are attached does not matter.

The set-up should now look something like the one in Figure C. Note: The wire on the actual controller is much longer than appears in the illustration.
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ATTACHING THE 3 JAMES FACES

It's like having four James Engines in one! Three interchangeable facial expressions (surprised, sad and angry) slip on and off James easily, for fun and imaginative play.

SURPRISED

SAD

ANGRY

To attach one of the faces, carefully position it in front of the permanent smiling James face in the front of the engine and push it straight on. To remove it, simply pull it straight off. Please remember that the smiling James face cannot be removed.
The Power Pack furnished with this train set has been listed by the Underwriters Laboratories, Inc. and has been carefully tested to assure proper performance. This controller is equipped with a built-in circuit breaker which will alternately cut off and restore the flow of power to the track whenever a short circuit exists until the cause of the short circuit is eliminated. This circuit breaker is incorporated into the controller to protect the power pack from possible permanent damage. It will not protect the locomotive or electrically operated accessories.

In case of a short circuit or overloading of the controller, the controller will turn itself off and on until the short circuit is corrected, or the load is reduced. A short circuit is caused by a direct connection across the rails (such as a derailed engine), or by two bare wires touching each other, at the track lockon, for example.

An overload condition could be caused by carrying too much weight inside the cars, or by holding the engine while it is under power, or by a sudden start or direction change.

After operating the power pack for a while you will find it warm to the touch. It is the nature of all electrical power equipment to become warm when in use.

If your power pack is loaded to capacity, it is a good idea to let it cool down after an hour or two of continuous use. Unplug the power pack when not in use.

Parents should periodically inspect the power pack for potential hazards such as a broken or damaged case and have it repaired or replaced. See the Lionel Service Station listing for information and the address of the nearest Authorized Service Station.

It should be noted that while power is continually increased as the controller knob is turned to the right, it will not drive the train until the knob is in the approximate position shown in the illustration above. As the load on the engine increases, (adding cars for the engine to pull for example) the amount that the knob needs to be turned to the right to run the train will increase.
To couple the troublesome trucks together simply push the hook into the center of the loop, being careful to locate the hook between the ribs. To uncouple the cars, push the tab on the hooked coupler.

When coupling the two troublesome trucks to the train, make sure that the **loop end** of the coupler (shown above) on both of the troublesome trucks is facing the James engine and tender.

Make sure that the hook is attached **between** the two ribs on the loop side of the coupler!

To couple the engine and the tender together, simply fit the post on the engine coupler to the hole on the tender coupler as shown on the right. The coupler on the rear of the tender has a hook style coupler that attaches to the loop style coupler on the troublesome trucks. (See above).

**STEP 5:**

**ALL ABOARD!!! HERE WE GO!!!!**
Never pickup the James Engine by the cab since the removable cab top may come loose and the engine may drop.

WRONG WAY TO PICKUP JAMES

Make sure to pickup the engine around the middle AS SHOWN HERE for better stability.

RIGHT WAY TO PICKUP JAMES
You may simply change the facial expression of your Troublesome Truck by sliding out the old face and replacing it with a new face, as shown.
JAMES ENGINE AND TENDER

2 TROUBLESOME TRUCKS

ACCESSORIES

LOCKON

UL LISTED DC POWER PACK WITH CONTROLLER

TWELVE CURVED SECTIONS OF TRACK

THREE INTERCHANGEABLE TROUBLESOME TRUCKS SLIDE-IN FACES

THREE INTERCHANGEABLE JAMES PUSH-ON FACES

SAD  ANGRY  SURPRISED