



## OPERATING REEFER CAR OPERATING INSTRUCTIONS

The RailKing® Operating Reefer lets you bring increased realism to the operation of your O Gauge layout. With its sturdy ABS body, the Operating Reefer is built to last a lifetime.

Controlled by track power and an Uncoupling/ Unloading Track Section, the Operating Reefer door opens and a figure comes out with an unloading dolly then dumps the loads onto the ramp. It is the perfect addition to any industrial railroad.

PLEASE READ BEFORE USE AND SAVE

[www.mthtrains.com](http://www.mthtrains.com)

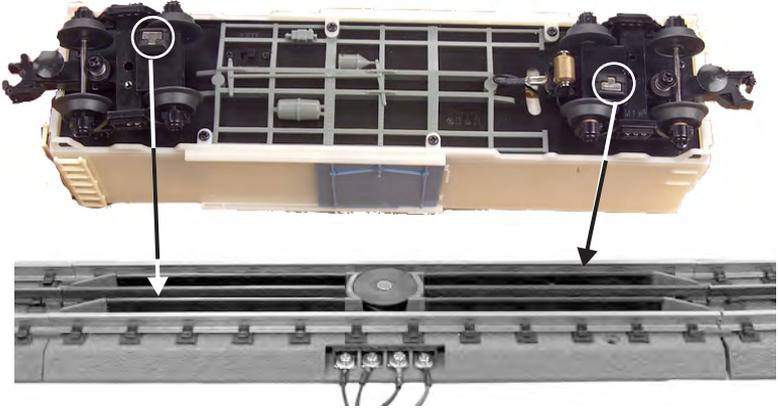
# INSTRUCTIONS

## Components

The Operating Reefer car comes with four load boxes, one unloading ramp, one pipette of smoke fluid and a pipette extension tube.



## Set Up



When you are ready to operate the Operating Reefer you will first need to decide whether or not you are going to use the smoke unit. If you are not going to use the smoke unit you must make sure the smoke unit switch on the bottom of the car is turned off. Damage could occur if the smoke switch is left on without smoke fluid. Then be sure that the entire car is on the Uncoupling/Unloading Track Section (UTS\*). So that the car's slide shoe pick-ups are in contact w/ the fourth and fifth rails of the UTS. The recommended voltage for operations is 14-16 volts.

\* UTS sold separately

## Loading

To load the car, open the body door that moves freely and you will see a small loading door next to a figure. Open the loading door, place 1 load inside and shut the door. **DOOR MUST BE SHUT** to avoid jamming. Then let the car cycle 1 time. No load will discharge from the car. Please note that once a load has been chambered you can not tip the car over because the load could jam. Remove all of the loads before tipping the car over or repackaging. Now open the loading door again, place the 3 remaining loads inside and shut the door. The car is now ready to run 4 cycles before reloading.



Loading Door



Opened Loading Door



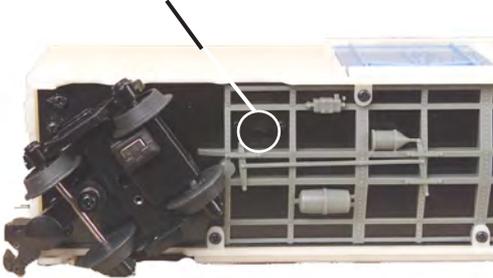
Place Loads inside

## Adding Smoke Fluid

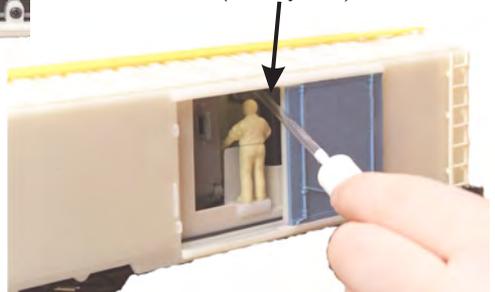
The smoke unit is essentially a small heating element, which cooks a mineral oil-based fluid that emits a harmless smoke. Before applying the smoke fluid make sure the On-Off Switch on the bottom of the car is tuned on. Once you add the smoke fluid you can not tip the car over or repackage the car because the smoke fluid will drain out of the smoke unit and onto the car. If you need to remove the smoke fluid we suggest draining the fluid slowly onto a paper towel or tissue. For best results we recommend you add about 6-8 drops of smoke fluid. For your convenience we have supplied a pipette of smoke fluid and an extension tube to help apply the smoke fluid.

*\*After pipette is empty, it is recommended that you use an eye dropper to add the smoke fluid.*

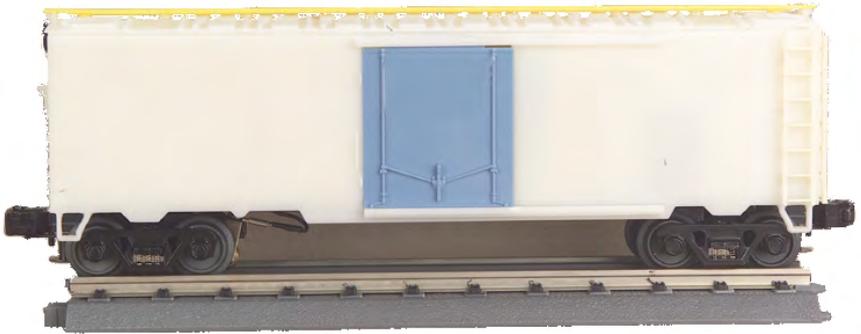
Smoke Unit On/Off Switch



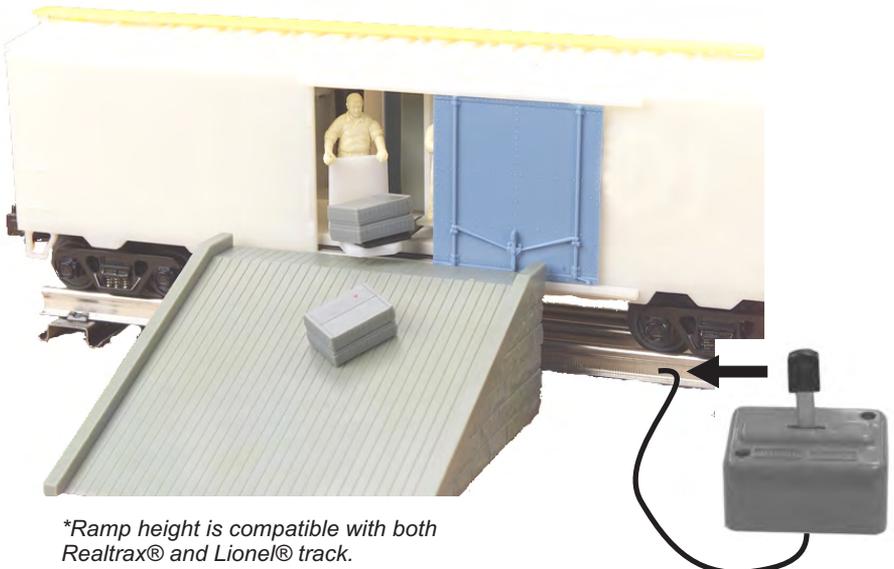
Smoke Unit  
(black cylinder)



## Operation



Starting Position



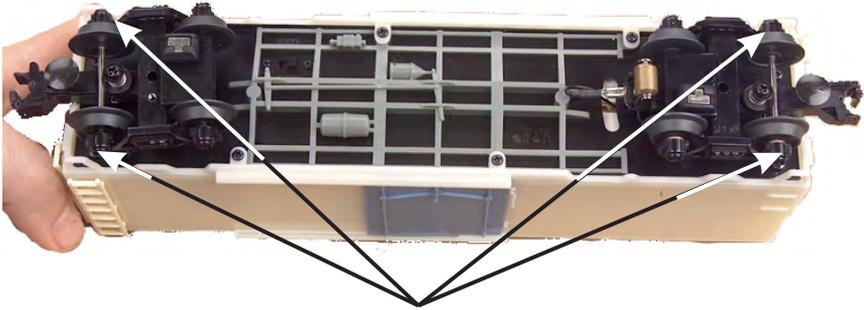
*\*Ramp height is compatible with both Realtrax® and Lionel® track.*

Active Position

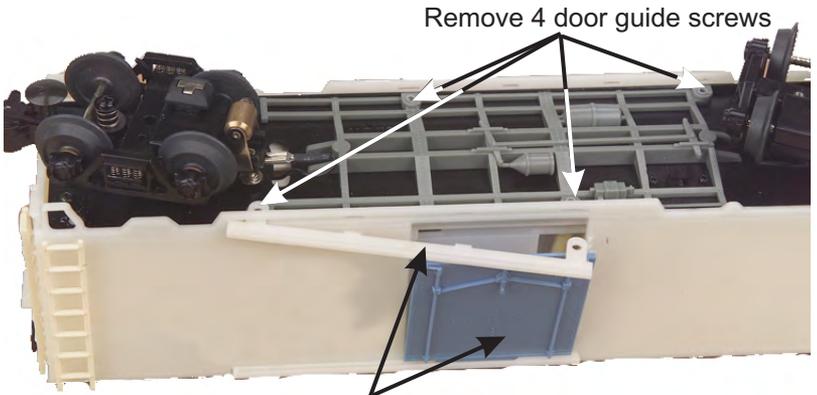
Hold the UTS switch in the "Unload" position for 2 seconds or until the door begins to move. (Refer to your UTS instruction sheet for complete directions in its use.) The reefer will automatically cycle. A figure will open the Operating Reefer's door, another figure will push out a load then go back inside, then the first figure will shut the door to end the cycle. The next load automatically goes into position for the next cycle. Press the unloading switch again to begin another cycle. The recommended voltage for operations is 14-16 volts.

## Light Bulb Replacement

Before removing the body be sure that smoke fluid and loads have been emptied. Also make certain that the operating door is completely shut.

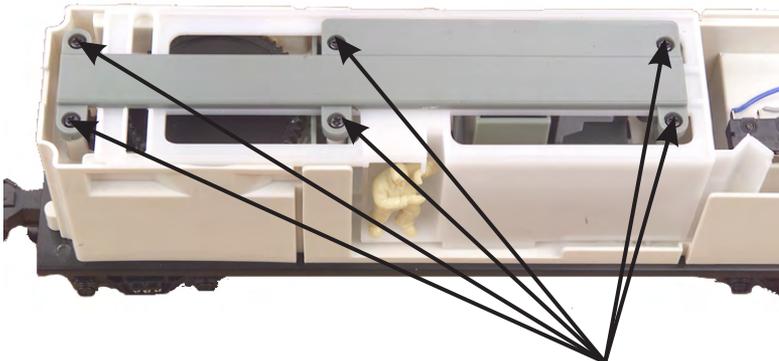


Remove 4 outside body screws



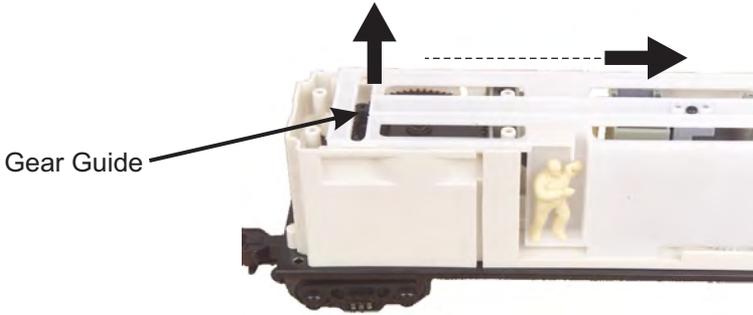
Remove 4 door guide screws

Remove door guides & door

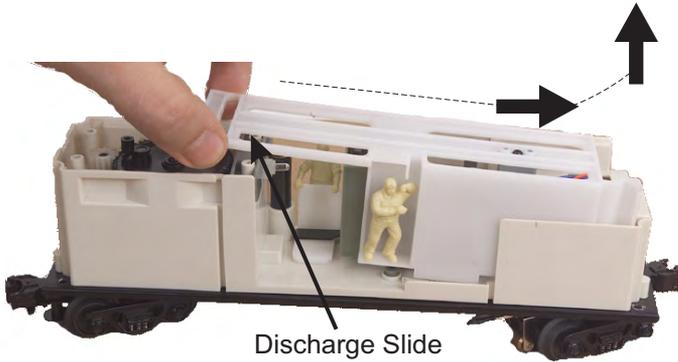


Remove 6 screws & bracket

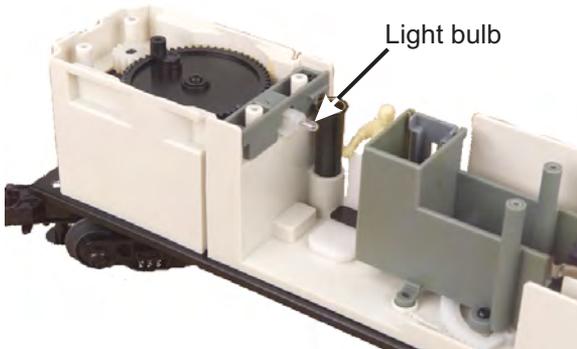
Lift the discharge slide over the gear guide and push it back.



After discharge slide is pushed back, lift up to remove from car.



Replace the light bulb by pulling out the bulb and putting a new bulb into the light socket.



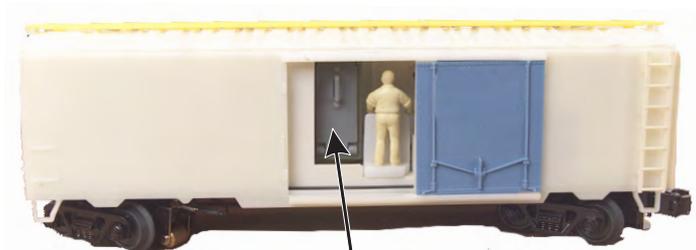
You can obtain replacement parts and instructions from the M.T.H. Parts Department.  
Order online: [www.mthtrains.com](http://www.mthtrains.com), e-mail: [parts@mth-railking.com](mailto:parts@mth-railking.com), Fax: 410-423-0009,  
Phone: 410-381-2580, Mail: 7020 Columbia Gateway Drive, Columbia, MD 21046-1532

# WARNING:

**Loading Door must be closed before operating.**

*(If the door is not shut completely, it could cause the load to jam while it is being pushed into the chamber.)*

**\*Also note: remove all loads before tipping car over or re-packaging.**



**Loading Door**

## **CAUTION: ELECTRICALLY OPERATED PRODUCT**

Recommended for Ages 14 and up. Not recommended for children under 14 years of age without adult supervision. As with all electric products, precautions should be observed during handling and use to prevent electric shock.

**WARNING:** When using electrical products, basic safety precautions should be observed, including the following:

- Read this manual thoroughly before using this device.
- M.T.H. recommends that all users and persons supervising use examine the hobby transformer and other electronic equipment periodically for conditions that may result in the risk of fire, electric shock, or injury to persons, such as damage to the primary cord, plug blades, housing, output jacks or other parts. In the event such conditions exist, the train set should not be used until properly repaired.
- Do not operate your layout unattended. Obstructed accessories or stalled trains may overheat, resulting in damage to your layout.
- This train set is intended for indoor use. Do not use if water is present. Serious injury or fatality may result.
- Do not operate the hobby transformer with damaged cord, plug, switches, buttons or case.

# Service & Warranty Information

## How to Get Service Under the Terms of the Limited One-Year Warranty

When you suspect an item is defective, please check the operator's manual for standard operation and troubleshooting techniques that may correct the problem. Additional information may be found on the M.T.H. Website. Should you still require service, follow the instructions below to obtain warranty service. First, e-mail, write, call or fax a M.T.H. Authorized Service Center (ASC) in your area to obtain Repair Authorization. You can find the list of ASCs on the M.T.H. Website, [www.mthtrains.com](http://www.mthtrains.com). Authorized Service Centers are required to make warranty repairs on items sold only from that store; all other repairs may-- or may not be done at the store's own discretion. If you did not purchase the item directly from the ASC, you will need to select a National Authorized Service Center (NASC). These centers are compensated by M.T.H. to perform warranty service for any customer whose repair qualifies for warranty service. A list of NASC retailers can be located on the M.T.H. Website or by calling 410-381-2580. Should the warranty no longer apply, you may choose either an ASC or NASC retailer to service your M.T.H. Product. A reasonable service fee will be charged.

**CAUTION:** Make sure the product is packed in its original factory packaging including its foam and plastic wrapping material to prevent damage to the merchandise. There is no need to return the entire set if only one of the components is in need of repair unless otherwise instructed by the Service Center. The shipment must be prepaid and we recommend that it be insured. A cover letter including your name, address, daytime phone number, e-mail address (if available), Return Authorization number (if required by the service center, a copy of your sales receipt and a full description of the problem must be included to facilitate the repairs. Please include the description regardless of whether you discussed the problem with a service technician when contacting the Service Center for your Return Authorization.

Please make sure you have followed the instructions carefully before returning any merchandise for service. Authorized M.T.H. Service Centers are independently owned and operated and are not agents or representatives of M.T.H. Electric Trains. M.T.H. assumes no responsibility, financial or otherwise, for material left in their possession, or work done, by privately owned M.T.H. Authorized Service Centers.

If you need assistance at any time email MTH Service at [service@mth-railking.com](mailto:service@mth-railking.com), or call 410 381-2580.

## Limited One-Year Warranty

All M.T.H. products purchased from an M.T.H. Authorized Retailer are covered by this warranty provided the product was manufactured within five years of the date of purchase. This warranty is for the original purchaser and is non-transferable.

See our website [www.mthtrains.com](http://www.mthtrains.com) to identify an M.T.H. Authorized Retailer near you.

M.T.H. products may be registered online in advance of warranty work at [www.mthtrains.com/warranty](http://www.mthtrains.com/warranty). The original sales receipt and the conditions below must be met regardless of whether the product is registered on the M.T.H. website in order to obtain warranty service.

M.T.H. products manufactured within five years from the date of purchase are warranted for one year against defects in material or workmanship, excluding wear items such as light bulbs, pick-up rollers, batteries, smoke unit wicks, and traction tires. We will repair, replace, or credit (at our option) the defective part without charge for the parts or labor if the following conditions are met: (1) the item is returned to an M.T.H. Authorized Service Center\* (ASC) or M.T.H. National Authorized Service Center (NASC) or M.T.H. Electric Trains Service Department, (2) was manufactured within the previous five years and (3) was purchased within one year of the original date of purchase from an M.T.H. Authorized Retailer. Products manufactured after the five year cutoff from the date of purchase are not covered under any warranty by M.T.H. Electric Trains. The manufacture date of an item can be verified on the item's detail page "shipping date field" on the M.T.H. website ([www.mthtrains.com](http://www.mthtrains.com)). This warranty does not cover damages caused by improper care, handling, or use. Transportation costs incurred by the customer are not covered under this warranty.

Items sent for repair must be accompanied by a return authorization number, a description of the problem, and a copy of the original sales receipt from an M.T.H. Authorized Retailer, which gives the date of purchase. If you are sending this product to an Authorized Service Center, contact that Center for their return authorization.

This warranty gives you specific legal rights, and you may have other rights that vary from state to state. Specific questions regarding the warranty may be forwarded to M.T.H. Directly.

\* Authorized Service Centers (ASC) are only obligated to provide warranty service for any consumer who has purchased the specific M.T.H. item from them that requires service work.

Service Department:  
M.T.H. Electric Trains  
7020 Columbia Gateway Drive  
Columbia MD 21046-1532