



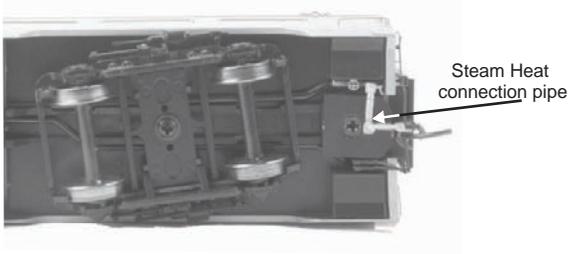
HO Norfolk and Western Passenger Cars

PLEASE READ BEFORE USE AND SAVE
www.mthhotrains.com

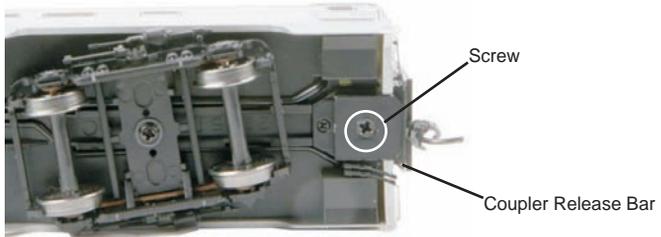
Accessing The Interior

If you wish to remove the body and access the interior to install figurines and/or to paint and decorate, follow the instructions below.

1. First you will need to remove the Steam Heat Connection Pipe. To remove this pipe gently pull down and wiggle it slightly until it drops out. *Note: over time the Heat Connection Pipe may become loose. If this happens you may need to glue the pipe in place.*



2. Remove the screw on the coupler pocket and remove the coupler from both ends of the car. (Be careful not to damage the coupler release bar.)



3. Then slightly pull outward on the body near a truck as you pull up on the truck. After you free one side repeat this step on the other end of the car. Gently lift out the interior from the body

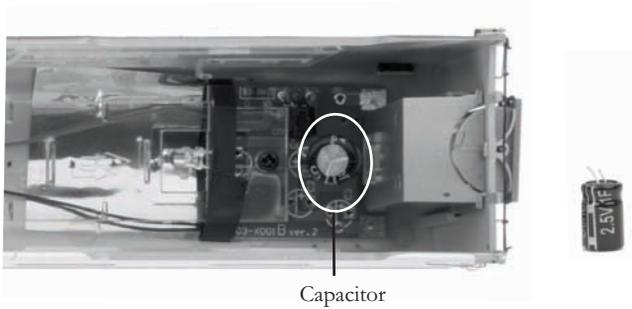


Set Up

Lighting

The lighting system employed in your M.T.H. Passenger Cars is designed to provide flicker free interior illumination by storing track current in a capacitor inside the car. The system requires at least 6 volts of power and needs some time to charge the capacitor before the lights will illuminate. Also after you turn the power off the lights will not turn off for several seconds as the power drains back out.

If operating at low voltages it could take up to five minutes for the car to light up. If you will be operating the cars at low voltages and are not satisfied with the time delay you can remove the capacitor from the PCB board. To do so remove the car body by following the steps on the previous page and simply cut the wires from the capacitor and the lights will operate instantly when you apply power.



If you need to access the interior for light maintenance please follow the disassembly instructions on the previous page.

To replace the interior lights unscrew the light boards and remove and replace the entire assembly. Replacement light boards can be obtained directly through MTH Electric Trains (Order online: www.mthtrains.com, e-mail: parts@mth-railking.com, Fax: 410-423-0009, Phone: 410-381-2580, Mail: 7020 Columbia Gateway Drive, Columbia MD 21046-1532,).

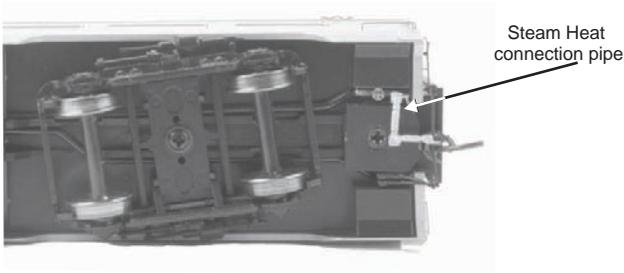


Set Up Cont.

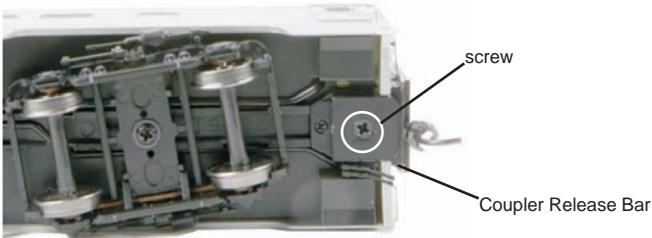
Couplers

These cars come assembled and ready to run on 22" radius curves. The cars can be configured so that they can be close coupled to allow the diaphragms to touch for a more realistic appearance. However the cars will need to run on a 42" and larger radius curves. If you wish to have the cars close coupled please follow the steps below.

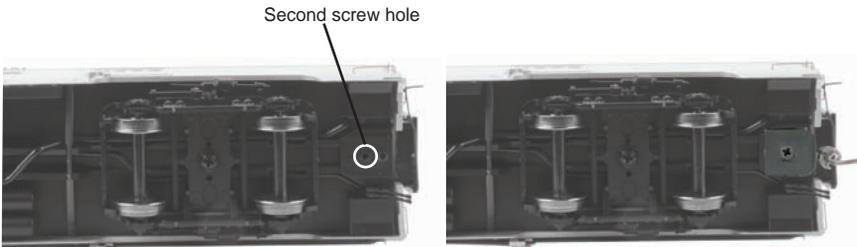
1. First you will need to remove the Steam Heat Connection Pipe. To remove this pipe gently pull down and wiggle it slightly until it drops out.
Note: over time the Heat Connection Pipe may become loose. If this happens you may need to glue the pipe in place.



2. Then remove the screw on the coupler pocket and carefully move the coupler inward (Be careful not to damage the coupler release bar.)



There is a second screw hole behind the hole where the coupler was originally attached. Reassemble the coupler in the second screw hole position.



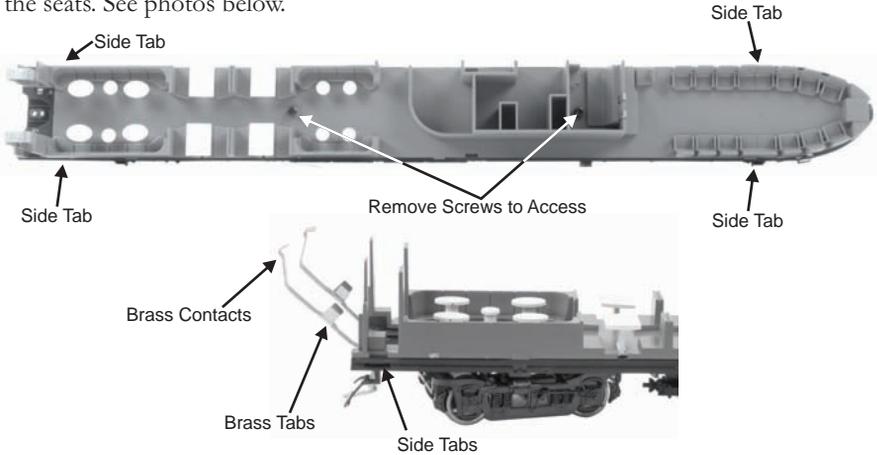
Set Up Cont.

3. Reattach the Steam Heat Connection Pipe by pushing it back into its slot. When you reattach the Steam Heat Connection Pipe you will notice that it will now interfere with the coupler trip pin. You will need to either cut off a small portion of the pipe or cut the trip pin to prevent any interference.

Trouble shooting

If you apply the track power to the cars and they do not light up follow the steps below to check the connection between the track and the lights.

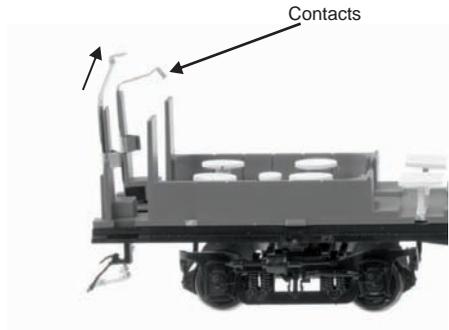
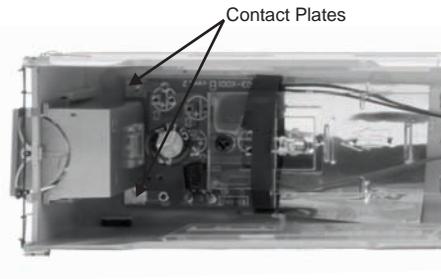
- 1) Put the car on the track and apply high power (12-18 volts) to the rails. If the lights and circuit are working correctly, the lights should illuminate in less than one minute.
- 2) Next, make sure the undercarriage is snapped down all the way, then place the car back on the track. Gently press down on the ends of the car. If the lights come on while you are pressing down and go out when you let go there may be a problem w/ the connections in the car.
- 3) Remove the undercarriage as per page 2 of the instruction manual.
- 4) Then remove the interior from the undercarriage. To remove the interior remove the 2 screws on top of the car. Unbend the brass tabs and remove the connectors from the interior posts. Then press in on the 4 tabs on the side of the car to remove the seats. See photos below.



- 6) Place the undercarriage back on the track and check to see if the contacts from the truck are pressing against the metal contacts on the undercarriages.



7) If you are still having problems with the car lighting up make sure the top of the contacts are bent up to make contact with the contact plates on the roof light board.



If this car is still not lighting up after completing the steps above contact M.T.H. Service Department or and Authorized Service Center. (www.mthtrains.com, e-mail: service@mth-railking.com, Fax: 410-423-0009, Phone: 410-381-2580, Mail: 7020 Columbia Gateway Drive, Columbia MD 21046-1532,).

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.mth-railking.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, or call 410 381-2580.

Limited One-Year Warranty

All M.T.H. products purchased from an Authorized M.T.H. Retailer are covered by this warranty. See our Website www.mthtrains.com to identify an M.T.H. Retailer near you.

M.T.H. products are warranted for one year from the date of purchase 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 item is returned to an M.T.H. Authorized Service Center (ASC) or M.T.H. National Authorized Service Center (NASC) within one year of the original date of purchase. 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 Authorized M.T.H. Train Merchant**, 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.

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

A Warranty Card is Not Provided for the separate sale coach. For this car's Warranty you must register online.