



Trolley Car

OPERATING INSTRUCTIONS



Your new RailKing Trolley Car is designed to bring excitement to someone new to model railroading or to add fun to an existing layout. The trolley's sturdy ABS plastic construction with all-metal wheels and gears are designed for years of operating fun.

PLEASE READ BEFORE USE AND SAVE
www.mthtrains.com

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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.

This product may be protected by one or more of the following patents: 6,019,289; 6,280,278; 6,281,606; 6,291,263; 6,457,681; 6,491,263; 6,604,641; 6,619,594; 6,624,537; 6,655,640.

Rev: 30DL10209I_Bump-n-Go Trolley 2015 6/2/15

Compatibility

The trolley will operate on any traditional O-27 or larger O Gauge track system, including RealTrax®. It is also compatible with any standard AC transformer (see page 6 for a complete list of compatible transformers and wiring instructions).

Set Up and Operation

- Lubricate the trolley car as shown on page 4.
- Place the trolley car on the track and apply power to run.

Once power has been applied, the trolley car will immediately begin moving. The trolley will reverse direction when the Automatic Reversing Bumper Mechanism (ARBM) in its bumper is depressed. To do this, you may depress the bumper with your hand or run the car into a track bumper or another car. Interrupting the transformer throttle voltage will only affect the trolley's speed; it will not cause the unit to change directions.

If the trolley does not move when you apply power, the reversing switch may be between positions. Gently press in one of the bumpers. If the car still does not move, press in the bumper on the other end of the trolley.

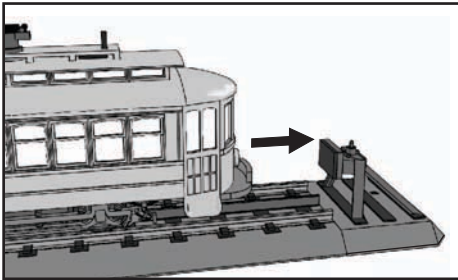


Fig 1: Trolley bumping into a bumper to reverse its direction

Exercise caution when running the trolley car into a bumper or another car to change its direction. Running the trolley car at excessive speed into a bumper or another car could damage the reversing bumpers and thus disable the reversing feature.

Lubricating the Trolley Car

Before you run your trolley car, you must lubricate it to prevent squeaking and premature wear. Use a light household or hobby oil, such as that in MTH's maintenance kit, to lubricate the gears, truck block bronze bushings, and pickup roller axles. Do not oil the surfaces of the pickup rollers. Apply a small drop of oil (a pinpoint oiler will help place the right amount of oil where you need it) to each of the points indicated below.

The trolley car's internal gearing in the power trucks has been greased at the factory and should not need additional grease until after 50 hours of operation or one year, whichever comes first. Use a lithium-based grease, or that found in MTH's maintenance kit, and follow the greasing instructions below:

1. Remove the body from the frame by unscrewing the four body mounting screws as shown below.
2. Once the shell is removed, open the gear box by unscrewing the two screws on the plate located in front of the motor.
3. Use a grease tube dispenser to apply a small amount of grease in the gear box.

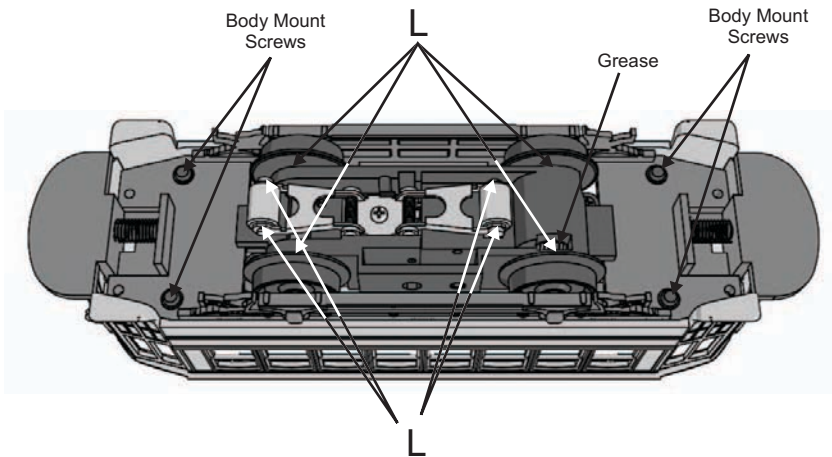


Fig 2: Lubrication points of Trolley

Lamp Replacement

The trolley uses two LEDs for directional headlights and two incandescent bulbs for interior lights. To replace the headlights or interior lights remove the four screws that attach the body to the frame, as shown in figure 2. Lift the body from the frame and replace the bulbs.

Note: Although the body shell can be rotated 180 degrees and still be fitted to the frame, the directional lights will only work properly in the original orientation. Before removing the body shell, mark an indication on which ends of the trolley frame and body shell match, so that the shell can be replaced properly.

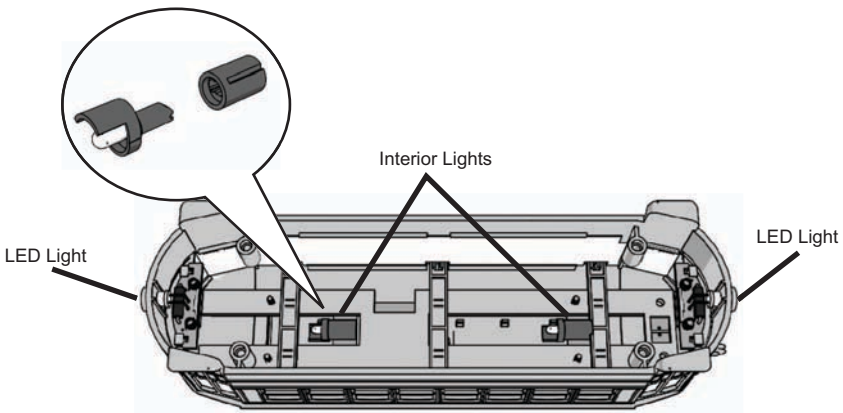


Fig 3: The location and the removal of the bulbs in the trolley.

You can obtain replacement bulbs directly from the MTH Parts Department by calling 410-381-2580.

Transformer Compatibility and Wiring Chart

The chart below lists many of the compatible transformers and how the terminals on these compatible transformers should be attached to your layout.

Transformer Model	Center Rail	Outside Rail	Min/Max. Voltage	Power Rating	Transformer Type
MTH Z-500	Red Terminal	Black Terminal	0-18v	50-Watt	Electronic
MTH Z-750	Red Terminal	Black Terminal	0-21v	75-Watt	Electronic
MTH Z-1000	Red Terminal	Black Terminal	0-14v 0-18v	80-Watt 100-Watt	Electronic
MTH Z-4000	Red Terminal	Black Terminal	0-22v	390-Watt	Electronic
Lionel 1032	U	A	5-16v	90-Watt	Standard
Lionel 1032M	U	A	5-16v	90-Watt	Standard
Lionel 1033	U	A	5-16v	90-Watt	Standard
Lionel 1043	U	A	5-16v	90-Watt	Standard
Lionel 1043M	U	A	5-16v	90-Watt	Standard
Lionel 1044	U	A	5-16v	90-Watt	Standard
Lionel 1053	U	A	8-17v	60-Watt	Standard
Lionel 1063	U	A	8-17v	60-Watt	Standard
All-Trol	Left Terminal	Right Terminal	0-24v	300-Watt	Electronic
Cab-1/Power master	A	U	0-18v	135-Watt	Electronic
Dallee Hostler	Left Terminal	Right Terminal			Electronic
Lionel LW	A	U	8-18v	75-Watt	Standard
Lionel KW	A or B	U	6-20v	190-Watt	Standard
R.O.W.	Red Terminal	Black Terminal	0-24v	384-Watt	Standard
Lionel MW	Outside Track Terminal	Inside Track Terminal	5-16v	50V.A.	Electronic
Lionel RS-1	Red Terminal	Black Terminal	0-18v	50V.A.	Electronic
Lionel RW	U	A	9-19v	110-Watt	Standard
Lionel SW	U	A	Unknown	130-Watt	Standard
Lionel TW	U	A	8-18v	175-Watt	Standard
Lionel ZW	A,B,C or D	U	8-20v	275-Watt	Standard
Lionel Trailmaster	Red Terminal	Black Terminal	0-18v	135-Watt	Electronic
Lionel Post-War Celebration Series ZW	A,B,C or D	Common	0-20v	135/190 Watt	Electronic

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. 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 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 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. 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). 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