

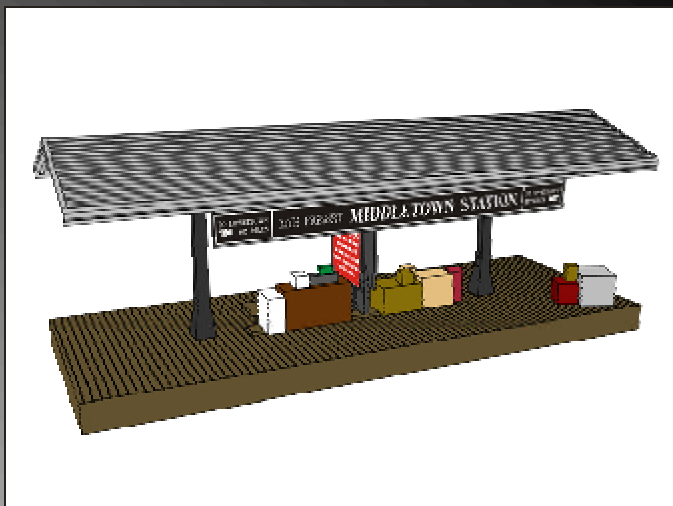


M.T.H.

ELECTRIC TRAINS.

7020 Columbia Gateway Drive
Columbia, MD 21046-1532

www.mth-railking.com



Now your trains can depart from empty platforms, looking like they loaded up and are hauling freight loads away with them. When the RailKing® Operating Freight Platform is connected to the activation button or to an ITAD, its freight is "loaded onto" the train when it stops at the station, leaving behind empty platforms when the train departs. The secret to the empty platform is a design that hides the freight load under the roof of the platform, so that it appears the cartons and crates have been loaded onto the train.

It will be easy to surprise friends and family with the Operating Freight Platform when you follow the directions inside.

Operating Freight Platform

CAUTION: ELECTRICALLY OPERATED PRODUCT:

Not recommended for children under 8 years of age without adult supervision. As with all electric products, precautions should be observed during handling and use to reduce the risk of electric shock.

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

- Read this manual thoroughly before using this device.
- M.T.H. recommends that all users and persons supervising use examine the unit 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 unit should not be used until properly repaired.
- This unit is intended for indoor use. Do not use if water is present. Serious injury or fatality may result.
- Do not operate with damaged wires or clips.
- Do not use this unit for other than its intended purpose. This unit was designed to operate with any AC or DC output toy train transformer. See the transformer's operating instructions for more operating and safety information.

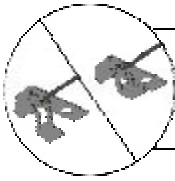


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WIRING INSTRUCTIONS

The RailKing Operating Freight Platform is made up of three components: the platform, connecting clips, and the switch. Before you place the platform on the layout, you must wire it to the switch and power source. There are two ways you can do this: 1. Hook the platform to the switch, or 2. Hook the platform to an Infrared Track Activation Device (ITAD sold separately). The Operating Freight Platform requires 12-14 volts to operate.

Option 1



Strip Z-wire cable harness insulation to reveal 1/4" of bare wire.

Note: This unit is equipped with a safety device to prevent overheating. If the platform is operated at less than 12 volts, the swing can become stuck in the in-between cycle, causing the coil to overheat. The safety device will shut the unit down to prevent this. If this happens, turn off power to the operating freight platform for 10 minutes. Then the platform will be ready to operate again at 12-14 volts.

From 4 Pin Connector

- A** Connect Green wire to terminal A
- B** Connect Blue wire to terminal B
- C** Connect White wire to terminal C
- D** Connect Yellow wire to terminal D

From 2 Pin Connector

- Connect Black wire to AC Ground
- Connect Red wire to AC Hot

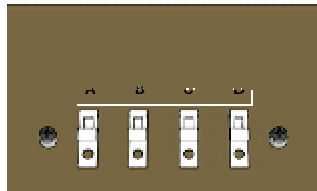
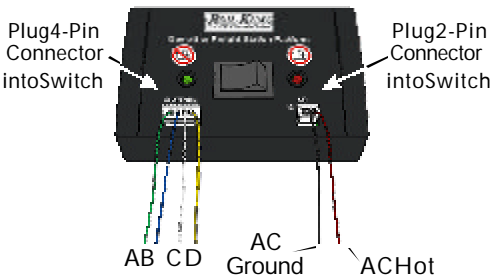
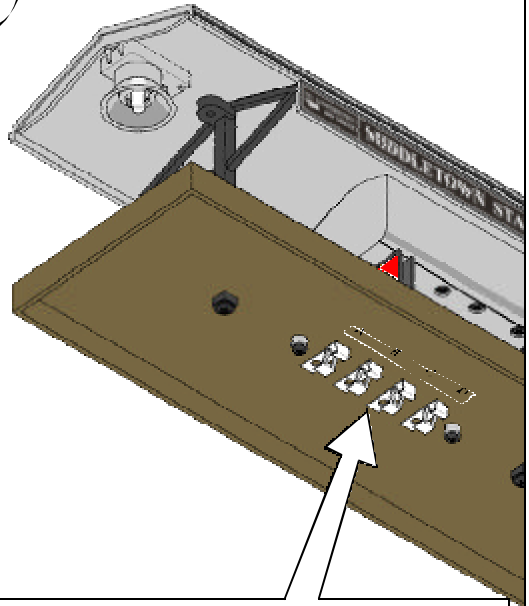


Fig1. Wiring Diagram

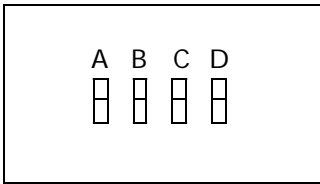
To operate when the platform is connected to the switch:

Simply flip the switch whenever you want to move the freight load. The red light indicates that the freight load is down, waiting to be loaded onto the train, and the green light indicates that the freight load is stucked under the roof, not visible on the platform.

Option 2

Connecting the platform to an ITAD

Connect the wires from under the platform to the track and ITAD as shown below. If you choose this option, you will notice the included switch.



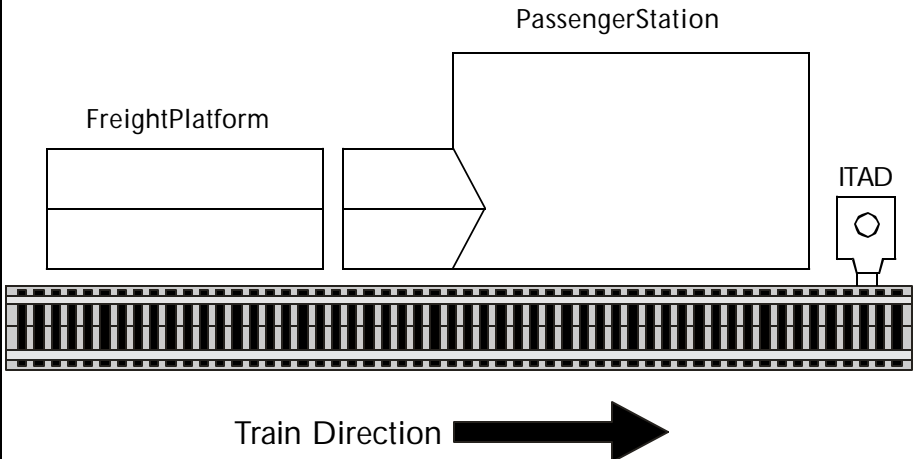
Underside of Freight Platform

- A Outer Rail (Transformer AC GROUND)
- B ITAD- N.O. (Normally OPEN)
- C ITAD - N.C. (Normally CLOSED)
- D Center Rail or ITAD- (common) (Transformer AC HOT)

To operate when the platform is connected to an ITAD

Be sure the ITAD is set to track power and in a location where the train will activate it when the freight load should board. You should also set the ITAD for a 10-15 second delay after the train has moved past it, so that people viewing the layout have time to see that the freight load is gone after the train pulls a way. You may want to adjust the sensitivity of the ITAD to work best with the distance of the train and operator on your layout.

M.T.H. suggests the layout shown in the diagram below as one option when using an ITAD:



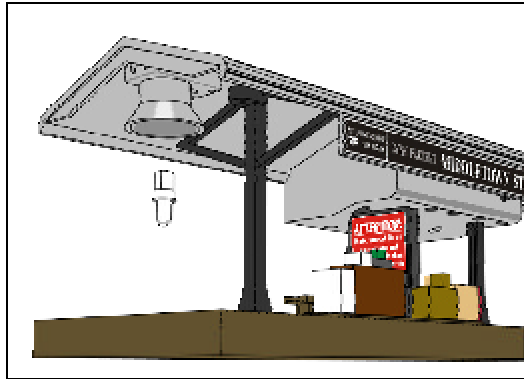
CHANGING THE LIGHT BULBS

When the lights under the roof of the platform burn out, replace them by popping the old one out and the new one back in like Christmas tree lights.

You can obtain replacement bulbs directly from the M.T.H. Parts Department
phone: 410-381-2580

e-mail: parts@meth-railking.com

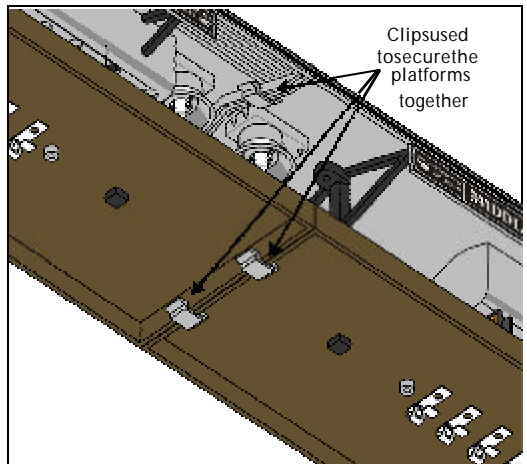
mail: 7020 Columbia Gateway Drive, Columbia MD 21046-1532).



CONNECTING THE PLATFORM

Connecting the Platform to Other M.T.H. Platforms

Your platform includes a set of 4 clips that can be used to secure 2 platform together. To use these clips simply align the two stations, and press the clips into the spaces on the base and underneath the roof.



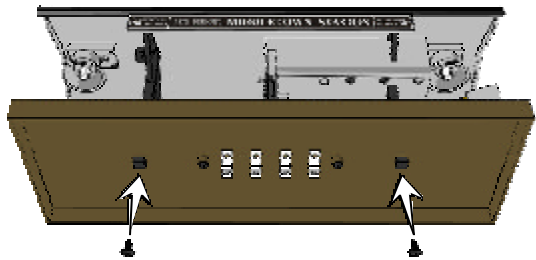
SPRING ADJUSTMENT INSTRUCTIONS

If you find that your freight is not raising or lowering as it should, use the following adjustment instructions to guide you through fine tuning your platform's operation.

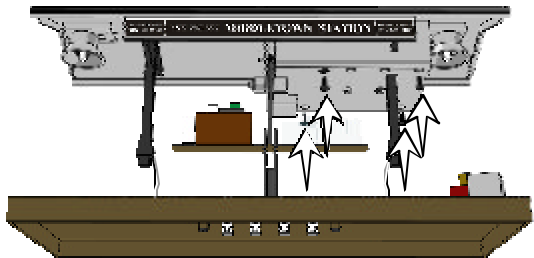
If you are not using a high wattage transformer, it is possible that it will have high voltage drops causing the unit to not operate. In this case, you may need to either turn the voltage up or decrease the spring tension. If the unit operates but the load does not stay hidden behind the sign, then you need to either decrease the voltage or increase the spring tension. Follow the instructions below to adjust the spring tension.

To Access the Tension Spring

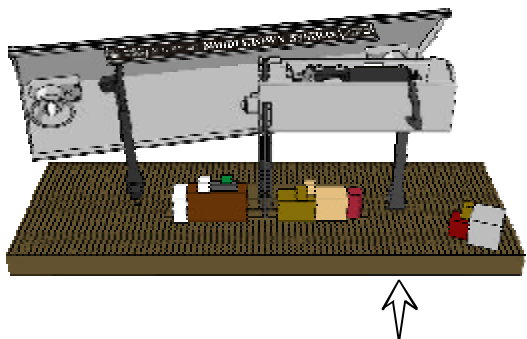
Remove the post screws on the underside of the platform.



Remove the four screws that hold the solenoid housing on the platform canopy. Be careful not to pull the platform canopy too hard, as this might cause damage to the wires.

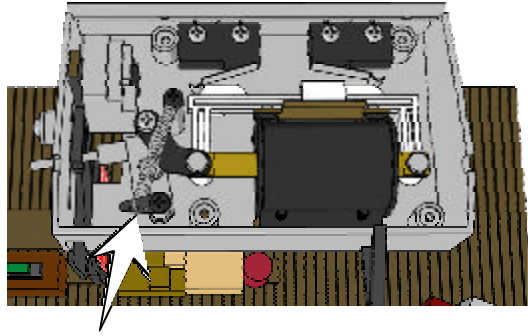


Install one post screw in the post that holds the solenoid housing. Leave the roof off so you can test the unit while you adjust the spring tension. With the unit connected to power, you cannot test the unit for the desirable voltage before re-assembling the unit.



Adjusting the Spring Tension for Lower Voltage

- Loosen the screw holding the bracket. Be careful - the bracket will swing forward relieving the spring tension.



- To operate at the least possible voltage, move the bracket towards the switches. Make sure that there is still tension on the spring.

If there is little or no tension on the spring, the load will not stay up behind the sign and will remain invisible. Gradually move the bracket away from the switches until the desired operation is attained.

- Tighten the screw holding the bracket, making sure that you do not change the bracket position accidentally during tightening.

Adjusting the Spring Tension for Higher Voltage

- Move the spring to the last hole on the bracket and move the bracket as close to the front wall as possible without hitting the wall.



- If this has not increased the spring tension sufficiently, remove the bracket and directly mount the spring to the brackets screw as illustrated.



In Addition: As a general guide the bracket has three holes. The hole closest to the screw provides the least tension and is for less voltage and the last hole provides the most tension and is for high voltage. Thesecondholeisthedefaultsetting.

SERVICE & WARRANTY INFORMATION

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

For warranty repair, do not return your product to the place of purchase. Instead, follow the instructions below to obtain warranty service as our dealer network is not prepared to service the product under the terms of this warranty.

- First, write, call, e-mail, or FAX M. T. H. Electric Trains®, 7020 Columbia Gateway Drive, Columbia, MD 21046 (Tel.: 410.381.2580; e-mail: service@mth-railking.com; FAX: 410.381.6122), stating when it was purchased and what seems to be the problem. You will be given a return authorization number to assure that your merchandise will be properly handled upon its receipt.
- **CAUTION: Make sure the product in its original factory packaging including its foam and plastic wrapping material so as to prevent damage to the merchandise. The shipment must be prepaid and we recommend that it be insured.** A cover letter including your name, address, daytime telephone number, e-mail address (if available), Return Authorization number, 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 one of our service technicians when contacting M. T. H.® for your Return Authorization Number.
- **Please make sure you have followed the instructions carefully before returning any merchandise for service.**

Limited One-Year Warranty

All M. T. H.® products purchased from an Authorized M. T. H. Train Merchant are covered by this warranty.

See our website at www.mth-railking.com or call 1.888.640.3700 to identify an Authorized M. T. H. Train Merchant nearby.

M. T. H. products are warranted for one year from the date of purchase against defects in material or workmanship, excluding light bulbs and traction tires. We will repair or replace (at our option) the defective part without charge for the parts or labor, if the item is returned to M. T. H. Electric Trains® 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 **copy of the original sales receipt from an Authorized M. T. H. Train Merchant**, which gives the date of purchase. Call 410.381.2580, fax 410.423.0009, or e-mail the Service Department at service@mth-railking.com to obtain a return authorization number.

This warranty gives you specific legal rights, and you may have other rights that vary from state to state.

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

